The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

MARCH 27 1954

UNSURPASSED

- **100% Effective**
  During the past seven years many thousands of users, both at home and overseas, have proved 'Sulphamezathine' to be virtually 100% effective against coccidiosis.
- **100% Safe**
  'Sulphamezathine' is completely safe to use under practical poultry farming conditions.
- **100% British**
  'Sulphamezathine' is a British discovery manufactured in Britain.
- **Most Economical**
  'Sulphamezathine' is most economical. The average cost of a complete course of treatment is about ½d. per chick.
- **Easy, Accurate Dosing**
  'Sulphamezathine' is used in the drinking water, and not mixed with the food. Poultry farmers are agreed that while chickens affected with coccidiosis will drink, most of them will not eat. Medicating the drinking water is therefore a reliable and convenient method of treating the flock, and enables the dosage to be controlled much more accurately.
- **Officially Approved**
  The outstanding activity of 'Sulphamezathine' against coccidiosis of chickens was discovered by British Ministry of Agriculture research workers, and its development has taken place in collaboration with the poultry industry, not only in Great Britain but in many countries overseas.



'Sulphamezathine'

SODIUM SOLUTION 16%

The Proven Remedy for Coccidiosis

3/2

IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED

A subsidiary company of Imperial Chemical Industries Limited

WILMSLOW, MANCHESTER

ICI

Galenicals for Prescriptions!

℞

stock up with WRIGHT'S

PHARMACEUTICALS AND BULK DRUGS

CATAPLASM. KAOLIN. Maximum therapeutic value due to high anhydrous Glycerin content.

EXT. CASC. SAGR. LIQ. From mature bark, absence of deposit on standing.

EXT. GLYCRYRRH. LIQ. Strictly B.P. manf., absence of deposit on standing.

PIL. FERR. CARB. Non-cracking, iron content does not deteriorate.

SYRUP, EASTONS. Always freshly made, maximum keeping properties.

AQUAE AROMAT. CONC. Full strength, stable, do not require filtering.

INF. GENT. CO. CONC. Full odour of fresh peel — free from deposit.

INF. CALUMB. CONC. Bright, and remains bright on standing.

HOUSEHOLD EMBROCATION. Effective, does not spill on application.

SYR. HYPOPHOSPH. CO. Brilliant, free from deposit.

SYR. GLYCEROPHOSPH. CO. Brilliant, stable colour, fine flavour.

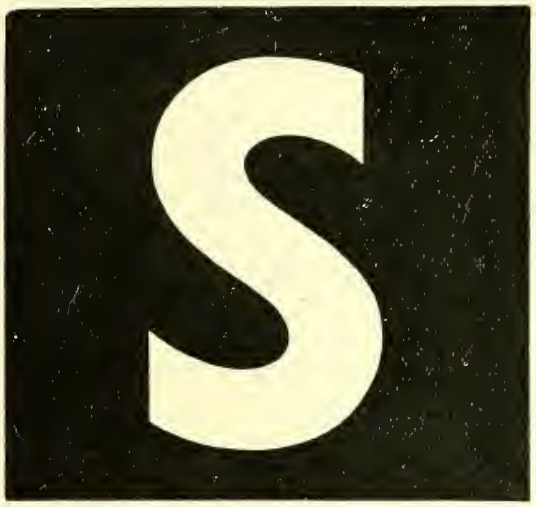
SYR. FERR. PHOSPH. CO. Full Salts content, yet stable and brilliant.

TINCT. NUC. VOM. Non-opalescent, retains clarity.

UNGUENTA. Milled, smooth, cold filled.

Priced as low as their high quality permits, these products of the house of Wright's assure you the widest margin of profit compatible with the maintenance of rigid standards of purity and accuracy in the filling of prescriptions.

WRIGHT LAYMAN & UMNEY LTD., SOUTHWARK STREET, LONDON, S.E.1. Telephone: HOP 4021 (10 lines)



for Sangers

for Service

Wherever you are, a call to Sangers brings you prompt attention and speedy delivery. Features of the Sangers Service appreciated by our customers include:

Prompt delivery
Prescription service

Your telephone call will be given priority by every department. We have a special fleet of vans to give you quick delivery.

Ample stocks

Whether it is Ethicals, Pharmaceuticals, Proprietaries, or Galenicals — whatever your requirements, we can normally meet them from stock.

Country-wide service

Get in touch with the address which is nearest to you. The Sangers Service ensures quick delivery wherever you are.

Ring or write

258 EUSTON ROAD · LONDON N.W.1 · *Phone:* EUSton 5010

NEWCASTLE · 46-50 ELSWICK RD. *Phone:* NEWCASTLE 34221

BRISTOL · 45 WILDER STREET *Phone:* BRISTOL 24551

TS. 9

A

Here is an attractive new bag for the pharmacy



Certor (*Regd.*) **No 1**

SATCHEL BAG

5″ x 7″ x 9½″

★ **Printed in two colours, bold, clean, over-all design.**

★ **Good quality sulphite paper.**

★ **Keen price.**

The Certor No. 1 Satchel Bag is a colourful, attractive bag for the pharmacy. It is printed on white sulphite in two colours: Blue and Maroon. It has an over-all design.

An effective wrapping for your counter trade, and an economical one, too. Order a supply now for the Easter trade!

Per 1,000 . . . **17/-**

Ask for prices for bigger quantities.

For paper bags, wrapping and display papers, and paper equipment (including the Certor Paper Cabinet)

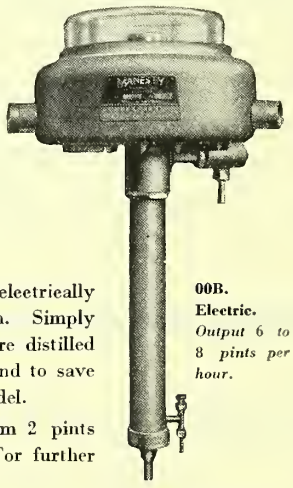
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MANESTY

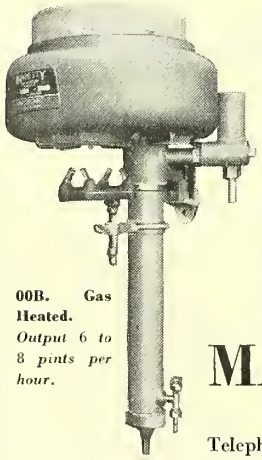
Automatic water stills

WITH THE NEW

vitreous finish★



00B. Electric. *Output 6 to 8 pints per hour.*



00B. Gas Heated. *Output 6 to 8 pints per hour.*

The MANESTY Automatic Water Still, 00B gas, paraffin or electrically operated model, is now available in the new vitreous finish. Simply installed, Manesty Stills ensure a constant supply of fresh pure distilled water. No storage, handling or transport problems arise, and to save further floor space a wall bracket is provided for each model.

MANESTY STILLS are available for outputs ranging from 2 pints to 50 gallons per hour at extremely low running costs. For further details send for our fully illustrated leaflets.

★ *Vitreous Enamelled Boiling Chamber (inside and outside). Condenser Pipe. Wall Bracket and Weir Chamber. Other fittings Chromium Plated.*

Manesty Machines and Stills are now used in over 60 countries.

MANESTY MACHINES LIMITED

DEPT. 5 SPEKE LIVERPOOL 19

Telephone: Hunts Cross 1972 Telegrams: Manesty, Liverpool, 19

MIXERS . TABLET MACHINES . COATING PANS . GRANULATORS . PUNCHES & DIES

Announcement

As from the 1st April the 1 oz. Crookes Lacto-Calamine pack will be discontinued.

This action is, naturally, much regretted but rising costs render it impossible to continue marketing the 1 oz. pack, as a commercial proposition, at the present price.

The price for the 4 oz. Lacto-Calamine will remain the same, as will the packings and prices for the Lacto-Calamine Cream and Lacto-Calamine Talcum Powder. (All three packings retailing at 3/1½d. inc. purchase tax.)

****

Our summer bonus leaflet, detailing spring and summer advertising plans, together with bonus offers, prices and illustrations of the attractive new range of display material for Lacto-Calamine, Crookes Hand Cream and the new Crookes Hand Lotion, dressed window displays, etc., etc., will be mailed to all retail chemists on the 1st April.

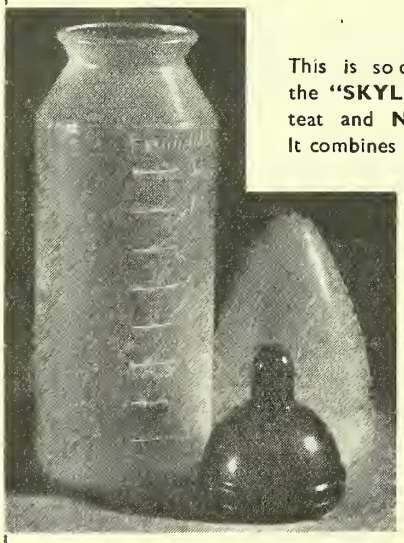


P.A.T.A.

THE CROOKES LABORATORIES LIMITED

PARK ROYAL LONDON N·W·10

DUAL PURPOSE FEEDER



This is sold complete with the **"SKYLON"** brand valve teat and **NO-GERM CAP.** It combines all the benefits of a feeding bottle with the advantages of a food measure. Additionally the wide neck permits of easier filling, and the large teat allows the nearest approach to natural feeding

SKY LON

Regd. Trade Mark

"SKYLON" POLYTHENE FEEDING BOTTLE

PATA

The new modern lightweight feeding bottle that no mother should be without. Indispensable at all times. Made of Pure Polythene. Safe and

- **UNBREAKABLE**
- **HYGIENIC**
- **TASTELESS**
- **ODOURLESS**

UNAFFECTED BY FOODSTUFFS

All standard teats fit neck. Will keep contents warm longer than any glass bottle



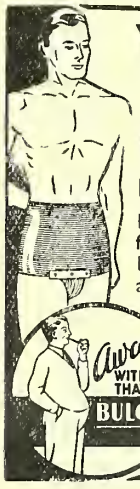
Obtainable from your usual Wholesaler

Manufactured by

FIBRENYLE LTD.

157 DUKES RD., LONDON, W.3

TELEPHONE : ACORN 5073



You Can Sell WELL!!

THE

CORP-U-LESS

DE LUXE VITALITY SUPPORTS

Retailing at 25/- showing ⅓ gross profit. Made from finest washable ELASTIC FABRIC. No buckles, or straps. The POUCHES are detachable. Sizes from 28″ to 46″ waist (five sizes). Nationally advertised. Showcards and leaflets available. The garment with "testimonials galore."

WHOLESALE AND EXPORT INQUIRIES

MAJOR DAY & CO., LTD.

55-56 Western Road, Brighton, Sussex

FOR IMMEDIATE AND FUTURE DELIVERY

FOLIC ACID

B.P./U.S.P.

For Home and Export

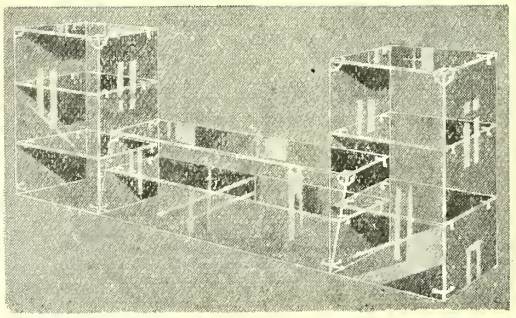
McKESSON & ROBBINS LTD.

"UNIVERSAL HOUSE"

Southwark Bridge · London · S.E.1

Telephone: WATerloo 3516/7/8

GUPWELL



Displaythings

make child's play of Window or Showroom Dressing

These three-piece, frameless glass display cases are the ideal answer to the chemist's quest for an attractive means of displaying a lot of small goods. Uprights 24″ x 16″ x 12″. Centre unit 36″ x 14½″ high x 12″

A. J. GUPWELL (SHOPFITTERS) LTD.

123 BRADFORD STREET, BIRMINGHAM 12.

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An advance in oral iron therapy

Clinical trials have shown that Anorvit, the new B.D.H. preparation of iron with vitamins C and K, provides **most effective absorption of iron with remarkable freedom from gastro-intestinal disturbance.**

'ANORVIT' TRADE MARK

Tablets containing ferrous sulphate, exsiccated, 3 grains (200 mg. approx.) ascorbic acid 10 mg. and acetomenaphthone 2 mg.

	TRADE	RETAIL
Bottles of 50 tablets	*1/10*	*3/3*
„ „ *500* „	*9 6*	—

A tax-free dispensing pack of 500 tablets is also available.

THE BRITISH DRUG HOUSES LTD. LONDON N.1

Anrt/T.531

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From the Carnegie Range of Fine Chemicals

BISMUTH SALTS

CARNEGIES OF WELWYN LTD

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'

Telephone: WELWYN GARDEN 5001
(6 lines)

3/3d missing from the till! - and 8d of it PROFIT!!!



No, not stolen, just **not taken** because you had no stock of **Ribena.** Worse than that, you disappointed a customer. Competition is too keen to do this! There's no sense in **asking** your customers to go to your competitors. What's more they may stay there if they can get ***WHAT THEY WANT— WHEN THEY WANT IT*** If **Ribena** is not on your shelves ask your Wholesaler **now**—He's got it, **and can supply you immediately.**

ASK

CARTERS OF COLEFORD (Glos.)

today for their sales aids that **sell**

and put this **Ribena** profit into **your till.**

No. 1 of a Series **PRESENTED BY ARTHUR H. COX & CO. LTD**



Early BRIGHTON—showing the old chain Pier.

"Dr. Brighton" prescribes . . .

Over 200 years ago the taking of sea water was prescribed by Dr. Richard Russell (1687-1759)—the founder of the seaside industry—who introduced Society and Fashion to sea water cures and the tonic-air of Brighthelmstone. The son of a surgeon and apothecary, Dr. Russell, and later the Prince Regent, hastened the change from this one-time fishing village into Brighton, soon to be known as "Dr. Brighton."

The town made famous by the Doctor is the home of Arthur Cox & Co. Ltd. —whose products carry purity and perfection of manufacture to Chemists and Doctors all over the world.

COX

Regd. Trade Mark

ARTHUR H. COX & CO. LTD

Manufacturing Chemists since 1839

BRIGHTON 7

SURGICAL STOCKINGS

Your customers' preference



Lastestar
FULLY FASHIONED

Litenet
ELASTIC NET

Designed-to-Measure

Maximum Comfort

Minimum Weight

Almost Invisible

Invaluable During Pregnancy

A VITAL AID FOR VARICOSE VEINS

For MEN a suspender is supplied if required

Wholesale and Export Enquiries:—

F. LONGDON & COMPANY LTD., AGARD ST., DERBY

Telephone: 48253 (4 lines). Telegrams: ELINSTAR, DERBY.

Companion Products

with the same effective

FIGHTING* FORMULA





stop COUGHS
beat COLDS
check CATARRH

You can feel them doing you GOOD!

These handy tins of Potter's Catarrh Pastilles are selling more readily now than ever before! Partly because **demand is increased** by regular big-space advertising in mass-circulation newspapers and magazines. Partly because Chemists find Potter's display packs **well worth counter space,** and certainly because customers buy repeatedly — thanks to the highly effective Potter's formula giving them the kind of quick relief they need in convenient pastille form.

The recently introduced Crystallised Pastilles are ideal for those customers, **especially children,** who prefer a pastille with a sugary taste.

* For those who prefer a

'sugary' taste

Potter's NEW

CRYSTALLISED

Pastilles

another ready-made seller to add to Potter's famous lines.

Same price—same formula

Children take them readily!



ORDERS THROUGH WHOLESALERS ONLY PLEASE

Potter's
CATARRH
PASTILLES

Products of POTTER & CLARKE LTD · Makers of POTTER'S ASTHMA REMEDY

StaffAllenS
FOUNDED 1833

DRUG EXTRACTS

Manufactured in various forms according to usage

LIQUID
GRANULATED
POWDERED
STANDARDISED
CONCENTRATED

IPECACUANHA
CASCARA
GLYCYRRHIZA
NUX VOMICA
KOLA · ERGOT
BELLADONNA

For the manufacture of Tinctures, Infusions Liquid Extracts, Decoctions, Confections, etc., etc.

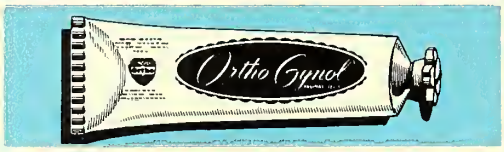
These are but a few of our range of extracts—a full list will gladly be sent on application.

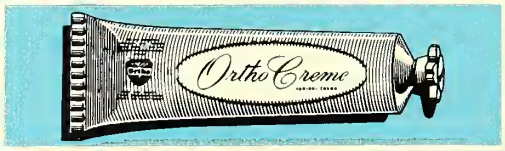
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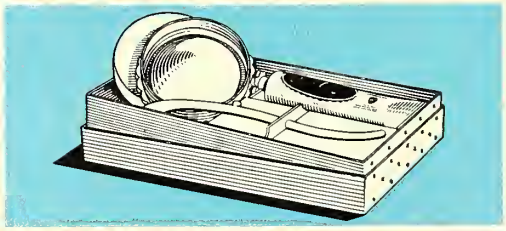
Every care is taken in the preparation of StaffAllenS Extracts, their concentration being under high vacuum thus retaining their full therapeutic properties.

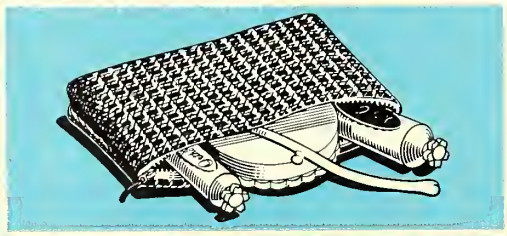
STAFFORD ALLEN & SONS LTD., WHARF ROAD, LONDON, N.1. Clerkenwell 1000





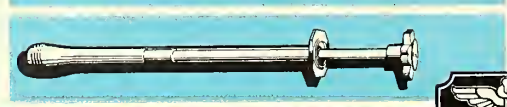














Ortho

the ethical name in contraception

Preceptin Vaginal Gel: contraceptive gel for use without a diaphragm.
Package A: 3 oz. tube, with Ortho Applicator.
Package B: 3 oz. tube.

Ortho-Gynol: contraceptive jelly.
Package A: 3 oz. tube, with Ortho Applicator.
Package B: 3 oz. tube.

Ortho-Creme: contraceptive cream.
Package A. $2\frac{1}{4}$ oz. tube, with Ortho Applicator.
Package B: $2\frac{5}{8}$ oz. tube.

Ortho-Gynol Set:
3 oz. tube of Ortho-Gynol
Ortho Diaphragm } in sizes 55 to 95
Ortho Diaphragm Introducer } (in 5 mm. gradations).

Ortho-Creme Set: as Ortho-Gynol Set with tube of Ortho-Creme instead of Ortho-Gynol in sizes 55 to 95 (in 5 mm. gradations).

Ortho De Luxe Kit: containing full size Ortho-Gynol, trial size Ortho-Creme, Ortho Diaphragm and Diaphragm Introducer in woven plastic zipper bag. Sizes 55 to 95 mm. (in 5 mm. gradations)

Ortho Diaphragm Duo-Pack: containing:
Ortho Diaphragm in sizes 55 to 95 (in 5 mm. gradations).
Trial size Ortho-Gynol.
Trial size Ortho-Creme.

Ortho Diaphragm: coil spring, sizes 55 to 95 (in 5 mm. gradations).

Ortho-White Diaphragm: flat spring, sizes 55 to 95 (in 5 mm. gradations). Each Ortho Diaphragm is packed in a permanent and beautiful plastic box.

Ortho Applicator: for vaginal application of measured dose (5 cc.) Ortho-Gynol, Ortho-Creme or Preceptin Vaginal Gel.

Ortho Diaphragm Introducer: individual introducers to accommodate diaphragms sizes 55 to 95 (in 5 mm. gradations).

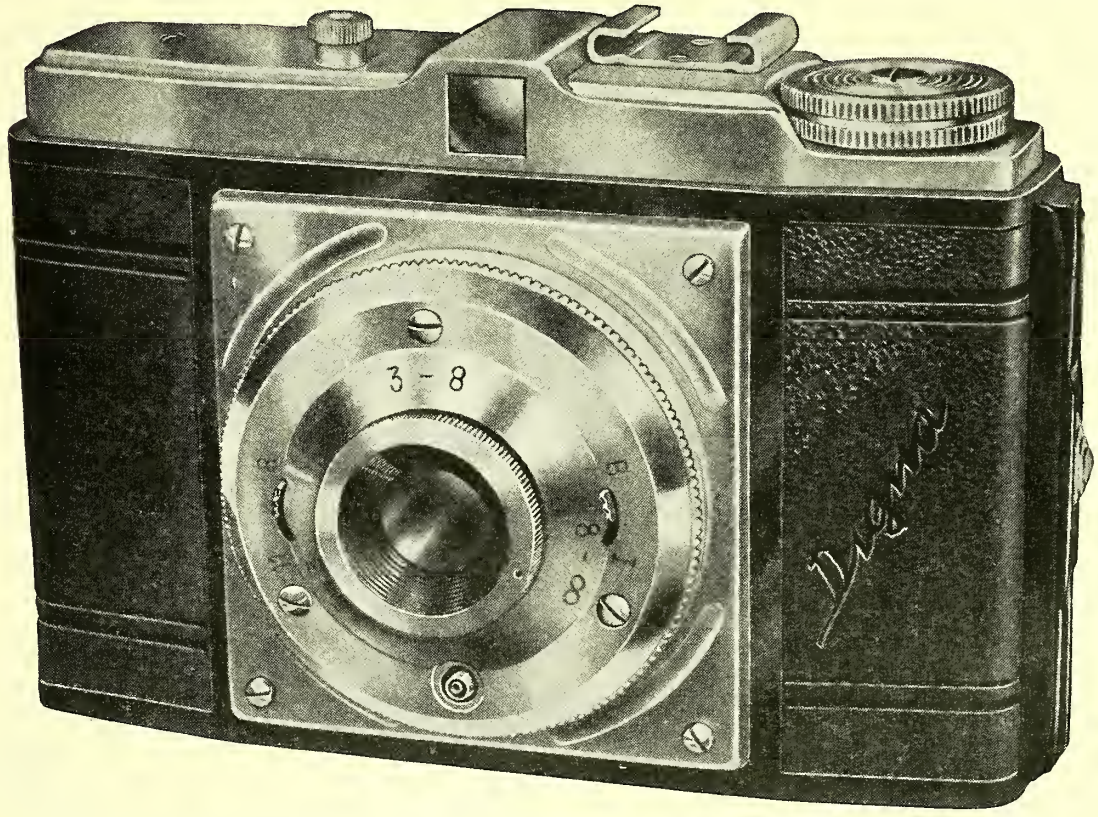
Supplies through your usual wholesaler, please!

Ortho Pharmaceutical Limited
HIGH WYCOMBE · BUCKINGHAMSHIRE · ENGLAND
Makers of Gynaecic Pharmaceuticals

The AMPLION

DACORA DIGNA "MINOR"

The new low price camera with all the latest features



No keen young amateur need be without a reliable, easy-to-operate, modern camera now that the DACORA DIGNA "MINOR" is available at such a low price. Ask your dealer to show you this latest AMPLION success.

HERE ARE THE TECHNICAL FEATURES:

Synchronised Shutter (Speeds B or I)
BODY SHUTTER RELEASE
Apertures f8 or f11.
7.7f coated lens.
Takes 12 exposures 2¼" x 2¼" with either "120" or "620" film.
ADJUSTABLE FOCUS.
COMPLETELY REMOVABLE BACK COVER FOR EASY LOADING.
BUILT-IN VIEWFINDER & ACCESSORY SHOE.

AND THE NEW SELF-ERECTING LENS HEAD

PRICE INC. PURCHASE TAX

£4.10.0

E.R. Carrying case £1.10.0 extra

AMPLION (1932) LTD · 230 Tottenham Court Rd · London · W1

TELEPHONE: LANgham 6738

A3

Richard Hudnut announces the greatest advance yet in Home Perm Technology

the *All new* Luxury Home Perm with Revolutionary Beauty rinse Neutralizer

From your point of view, the marketing in this country of the new, amazingly versatile Richard Hudnut Home Perm, means a boost to sales. American women by the million thrilled to the inexpensive luxury of the neutralizing-conditioning-beautifying action of new, Beauty Rinse Neutralizer. And only the new, quicker-from-start-to-finish Richard Hudnut Home Perm offers the choice of three methods of perming with one kit. A threefold sales potential !

Exclusive to Richard Hudnut

—a choice of 3 perming methods—with *one* kit

Some women prefer the 'on-curler' method of home perming . . . others will want to try the new pin curl method . . . the remainder swear by the salon technique of perming. Now, with the all new Richard Hudnut Home Perm your customers can choose any of these three methods *with the same kit.*
Beauty Rinse Neutralizer guarantees the best results whichever method is used, there is never any ' first day frizz '.

1. Salon Method. This is the professional way to get deep, lasting natural looking waves and bouncy curls.

2. On-Curler Method. With this method hair stays wound on the curlers until dry, thereby cutting out the step of unwinding and resetting hair in pin curls. Because Beauty Rinse Neutralizer works instantly, the hair is perfectly safe.

3. Pin-curl Method. This is something new to this country. The pin-curl method gives a loose, natural-looking curl, suitable for today's simple, short hairstyles. It is *easier* to do because hair is wound and set in much the same way as for the usual nightly set, using hair pins to secure each curl. The pin-curl method is faster because no extra setting is required after the final rinse. When hair is dry the permanent wave is complete. Simply take out the pins and comb in the desired hairstyle. Pin-curl perms are not intended to last as long as salon method home perms—they're ideal for the short-haired girl who has a cut and shape regularly.



1 The most beautiful salon method perm of all . . . with firmest, lasting curls.



2 The most satisfactory on-curler method . . . with the nicest, springiest curls.



3 The easy pin-curl method . . . gives lovely, casual curls.

Advertising they'll love

Here you see the opening shot of Richard Hudnut's nation-wide advertising campaign scheduled to break **March 22nd**—it's planned to give you more support than ever before. No woman could miss this large size advertisement appearing in:—

Daily Express	Sunday Express
Daily Mirror	Week-end Mail
Reveille for the Week-end	Sunday Dispatch
Reveille Mid-Week	Illustrated
Sunday Pictorial	Picture Post
Daily Mail	Woman
News Chronicle	Woman's Own
People	Woman's Weekly

With a total readership of 57,200,000 women



New Packs... New Display Material

The superiority of such an outstanding creation as the new Richard Hudnut Home Perm is reflected in the quality and sales appeal of pack and point-of-sale pieces.

The sooner you arrange your Richard Hudnut Display, the sooner you'll get the full benefit from advertising and promotional activities.

Let's talk Business...

Here's our introductory offer!
On all orders of three dozen refill kits and ¼-dozen Whirl-a-Wave Kits received up to April 30th we offer **7½%** quantity discount

If you agree to display the new Richard Hudnut Home Perm for one month, a further **7½%** display discount

In addition, of course, there is the usual **2½%** cash discount

This gives a profit for you of 44·23% or 2/8d. per unit

As an alternative—if you order one dozen refills and one Whirl-a-Wave kit we offer 5% display discount, and goods delivered CARRIAGE PAID. If you have not ordered already, send your order today. If you have, get the goods and display on your counter TODAY!

No. 983 Whirl-a-Wave Kit
List Price - - **117/-** per doz.
Retail incl. P.T. **21/6** each.

No. 972 Refill Kit
List Price - - **48/6** per doz.
Retail incl. P.T. **9/-** each.

What about your old stock?

We intend to continue to sell the original Richard Hudnut Home Permanent. The reason for this is that experience in the United States and Canada has shown that despite the enthusiastic reception of the new Home Permanent, there continues to be a steady demand for the old. Therefore we shall continue to promote the original Richard Hudnut Home Permanent, so that we can please everybody. In the event of the rush for the new model leaving the old one high and dry Richard Hudnut's usual policy will cover its customers against loss.

RICHARD HUDNUT LIMITED, POWER ROAD, LONDON, W.4 · CHISWICK 7123-7

PRICE REDUCTIONS

ELI LILLY & COMPANY LIMITED

Announce the following price reductions for Ampoules 'DURACILLIN A.S.' as from Monday, March 29th, 1954.

	OLD PRICE	NEW PRICE
'DURACILLIN A.S.' 10 c.c. ampoule.	10/4½d.	9/6d.
'DURACILLIN A.S.' 1 c.c. ampoule.	2/10½d.	2/7½d.

The above are retail prices, exempt from purchase tax.

Applications from retail pharmacists for credit on stocks held at closing time on March 27th, should quote batch numbers, and should be made direct to Eli Lilly & Co. Ltd., within 14 days.

Lilly TRADE MARK

ELI LILLY & COMPANY LIMITED · BASINGSTOKE · HANTS

LOOK!

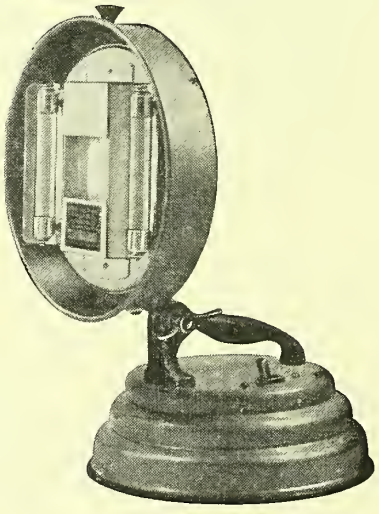
COMBINED
ULTRA-VIOLET AND LUMINOUS HEAT LAMP

13 GNS! RETAIL

LOOK!

This sensational Health Lamp is designed and built to *sell* on sight, to *sell* fast. Customers certainly get their 'money's worth' with the 365—and healthy business for you, the stockist. The 365 features a high pressure quartz tube, 650w. luminous heat generators and operates on AC or DC 200/250 volts.

PROFIT BY STOCKING AND *SELLING* . . . .



The **Barber** MODEL **365**

STOCKED BY LEADING WHOLESALERS
Send for details and list of approved Wholesale Stockists.

BARBER ELECTRICAL SERVICES LTD., LEACH STREET, BIRMINGHAM, 15.

JUST STARTED!

THE BIGGEST DRY SHAVER ADVERTISING CAMPAIGN EVER!

THE biggest dry shaver advertising campaign ever to be seen in this country has just been launched for Philips ' Philishave ' and will be continued all through the year.

In addition to consistent big space advertising in all the leading National, Sunday and Provincial papers and a number of important magazines, big-scale demonstrations will be held at many important exhibitions and shows throughout the country.

Make sure a ' Philishave ' is well-displayed in your window and in your showroom. Above all, don't forget that a demonstration is the best way to clinch a sale !

PHILIPS

PHILISHAVE

DRY SHAVER



THE DRY-SHAVER WITH THE BIGGEST WORLD SALE!

RADIO & TELEVISION RECEIVERS . RADIOGRAMS & RECORD PLAYERS . LAMPS & LIGHTING EQUIPMENT, ETC.

PHILIPS

Philips Electrical Ltd., Century House, Shaftesbury Avenue, London, W.C.2

Last Season's Success with the all year round appeal

—

NATIONALLY ADVERTISED

—

Show Cards Supplied

—

Send post card to :—

Also in Family Jars

3/-

24/- doz.
TAX FREE



SHOWCARDS SUPPLIED

9/- doz. TAX FREE

Compact Display Outers printed in three colours supplied with all orders and on request a small three colour Aluminium Stand suitable for displaying most "Sure Shield" products

Thos. GUEST & Co. Ltd.

CARRUTHERS ST. ANCOATS, MANCHESTER, 4

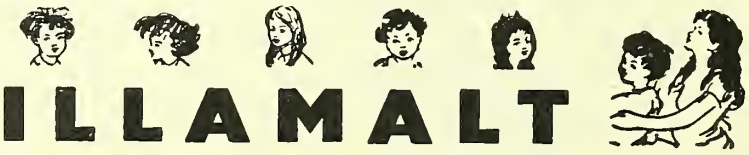
See to your stocks of "Sure Shield" Laxatives — regularly advertised

"ROADMASTER" NIGHTDRIVING GLASSES

—The new accessory that every Motorist wants!

Manufacturers : **FISH OPTICAL CO. LTD.★**
McNeish House. 261 HARROW ROAD, LONDON, W.2
Tel.; CUNNINGHAM 8318 & 8267
★Makers of the world-famous 'SUNGARD' Sunglasses

WE WANT MILLAMALT



Sole Manufacturers:
JEFFREYS, MILLER & CO. LTD., *Leyland Mills, Wigan. (London Department 19 Brookside Rd. N.)*

BECAUSE OF THE BUTTERSCOTCH FLAVOUR

A FREE WINDOW DISPLAY TO HELP YOU SELL MORE

AURORAL COLD WATER DYES

In 30 popular shades. Counter Display Cabinet supplied with one gross on request.

48/- gross: Retail 6d. pkt. (P.A.T.A.) Less 5% for cash in 7 days

These dyes carry a bigger profit margin than others and now, to help you sell more, we offer, free of charge, a Special Window Display dressed by specialists. This, with our extensive advertising in women's magazines can mean record sales for you this Season. Write at once to:

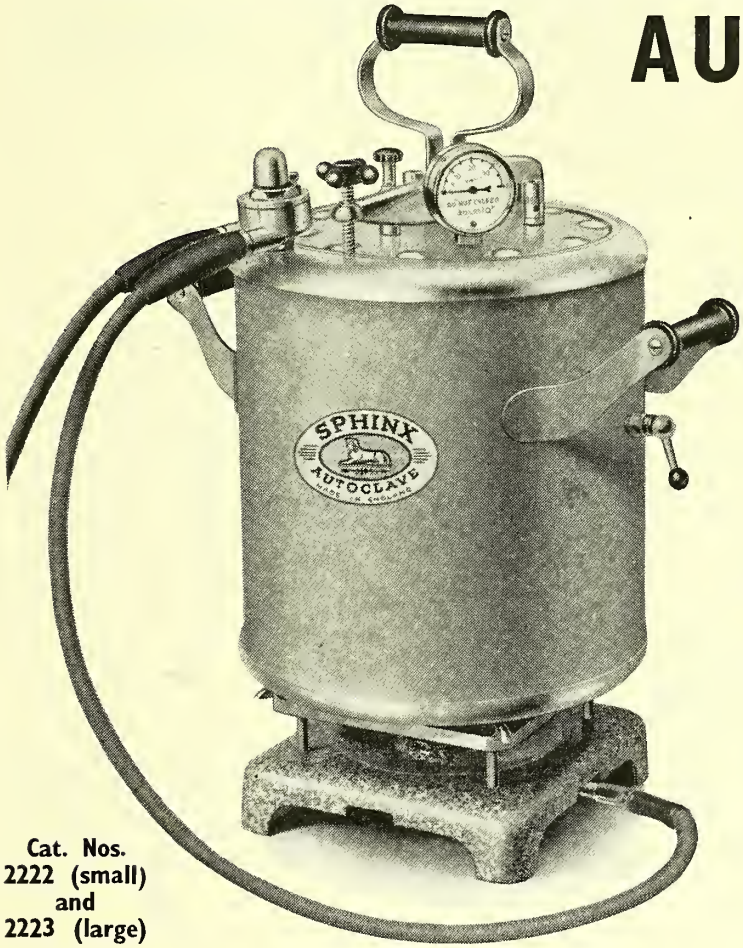
LUTON STRAW HAT DYES

Standard range of twelve colours. Dull or glossy series; supplied complete with brushes for applying the dye.

Large size 18/- per doz. Retail (P.A.T.A.) 2/- per bottle
Small size 13/6 „ „ „ „ 1/6 „ „
Less 5% for cash in 7 days

WHITAKER & CO. (KENDAL) LTD.
DYE AND CHEMICAL MANUFACTURERS — KENDAL

The Sphinx
STAINLESS STEEL
GAS OPERATED — THERMOSTATICALLY CONTROLLED
AUTOCLAVE



Cat. Nos.
2222 (small)
and
2223 (large)

Made in 2 sizes :

11″ × 10½″ for sterilising ampoules and bottles of injectible fluids.

18″ × 10½″ for sterilising pipettes, syringes, etc.

Accessories Available :

1. **Friedman-Athill type gas burner and Compoflex tubing.**
2. **Stainless steel wire baskets.**
3. **Copper sheathed thermometer graduated 210/300°F.**
4. **Two stainless steel semi-circular half plates for use when sterilising bottles.**

MAXIMUM WORKING PRESSURE 20 lbs. per sq. in.

Approved by the Technical Committee of Joint Insurance Companies

To satisfy a long felt need
AT A REASONABLE PRICE

A fully descriptive leaflet and price list will be sent, post free, on request

JOSEPH SANKEY & SONS, LTD.
ALBERT STREET · BILSTON · STAFFS.

TRADE MARK
JS SS

"dor" is the only deodorant cream selling under 1/-

"dor" will sell to the untouched mass market

If you have already placed your order with us we thank you for your co-operation. If not, we invite you to write direct. F. W. HAMPSHIRE & Co., Ltd., Manufacturing Chemists, Sunnydale, Derby.

BONUS for Display
3 doz. charged as $2\frac{3}{4}$ doz. or multiples thereof.



This attractive lilac container with at least one month's supply — for only 9d!

Profit from our huge* advertising campaign

*large spaces in huge circulation Daily Express and Daily Mirror, Woman, Woman's Weekly, Woman's Own, etc.

Display "dor"


A new deodorant cream for only 9d
dor
deodorant
CREAM
9d
FOR PERSONAL FRESHNESS
EACH CONTAINER HOLDS AT LEAST A MONTH'S SUPPLY
dor
deodorant
CREAM



Bartlett's

SUNGLASS DISPLAY UNIT

FREE! with every opening order



To boost your 1954 Sunglass Sales, Bartletts offer the *first ever* Display Unit FREE with all opening orders.

There are no strings attached, no special assortment to stock to secure this attractive counter and window Display Unit.

Get yours on display early to make sure of record business this season.

★ *Send now for the Bartlett Brochure, showing the full 1954 range of Sunglasses.*

ALFRED FRANKS & BARTLETT CO., LTD.,

226/8, GRAYS INN RD., LONDON, W.C.1 Telephone: TERminus 9865/8

Experience over the years, coupled with up-to-date equipment in a modern factory, is the start. Take the finest raw materials procurable and subject them to thorough analytical control at every stage and you're well on the way to QUALITY.

THOMPSON

&

CAPPER

FOR

TABLETS

A great variety of industries use Tablets or Pellets specially prepared by us to meet many specialised purposes. Tablets large or small, in thousands or millions, pounds or tons.

THOMPSON & CAPPER

WHOLESALE LTD.

SPEKE LIVERPOOL.

E

Maw's Anticolic

TEATS



SELL...



and SELL...



and

SELL!

Now available in unusually attractive display-box. Keep it well to the fore —and see sales soar!

Retail Price 8d. each

S Maw Son and Sons Limited
Barnet England

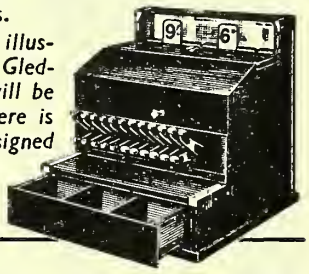
THE BELLS ARE RINGING

on thousands of Gledhill Cash Registers. Shopkeepers throughout the country are recording every cash sale, giving their customers visual evidence of the amount paid and avoiding any possibility of dispute. At the same time a Gledhill Register provides a permanent record of total takings at the end of each day's business.

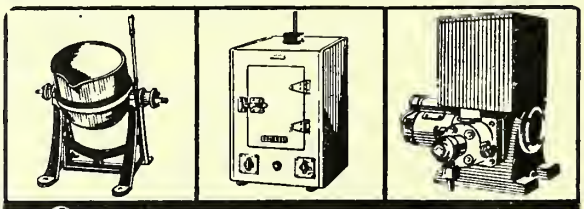
On the ring of the Gledhill bell five protective features operate to safeguard your interests.

A fully informative illustrated Catalogue of Gledhill Cash Registers will be sent on request. There is a model specially designed for your business.

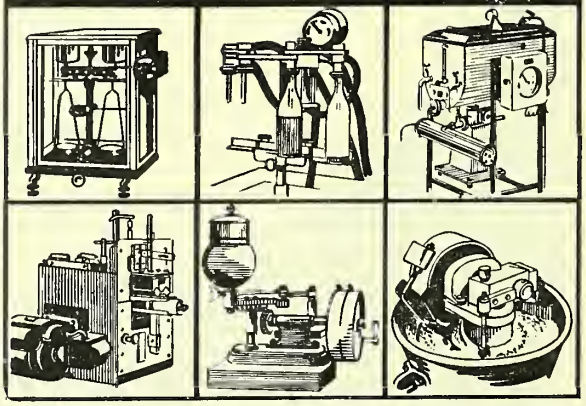
BRITISH MADE FOR 60 YEARS.



G. H. GLEDHILL & SONS LTD
28 TRINITY WORKS, HALIFAX



Sumner's OF LIVERPOOL & CARDIFF
offer a quick, economical and comprehensive service for
DRUGS · GALENICALS · DRESSINGS
INSTRUMENTS · PROPRIETARIES
R. Sumner & Co. Ltd.
HANOVER ST. LIVERPOOL · FITZALAN RD. CARDIFF



S16

"Ayrtons are old-fashioned"

said the Expert. We raised our brows, for we had not thought so.

"You are not streamlined," went on the Expert. "Your production is not specialised. Your ranges of Drugs, Tablets, Sundries, Packed Goods, Fancies, Patents and Proprietaries are far *above the irreducible minimum. Your whole organisation and service is too comprehensive."*

"Ah! 'service,'" we said. "There may be, though we emphatically doubt it, a minim or two of truth in what you say. But this we know, and proclaim with pride,

The only old-fashioned thing about Ayrtons is our ideal of Service to the Customer.



AYRTON SAUNDERS
& CO. LTD
HANOVER STREET · LIVERPOOL
Telephone Royal 8282

THE DISTILLERS COMPANY
(Biochemicals) Limited

AGAIN
A REDUCTION
in the price of
PENICILLIN

NOW 2s. 7½d. *per mega unit*

FROM 29 MARCH

(Subject to the usual discounts.) ***Full details of the new prices appear elsewhere in this issue.***

We have pleasure in announcing that through continuing improvements in methods of manufacture, we are able to reduce yet again the price of penicillin.

Applications from the retail and wholesale trade for credit on stocks held at closing time on March 27 should be made within 14 days *to the supplier by whom the goods were invoiced,* quoting batch numbers.

Distributed by ALLEN & HANBURYS LTD. | EVANS MEDICAL SUPPLIES LTD.
BRITISH DRUG HOUSES LTD. | IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.
BURROUGHS WELLCOME & CO. | PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

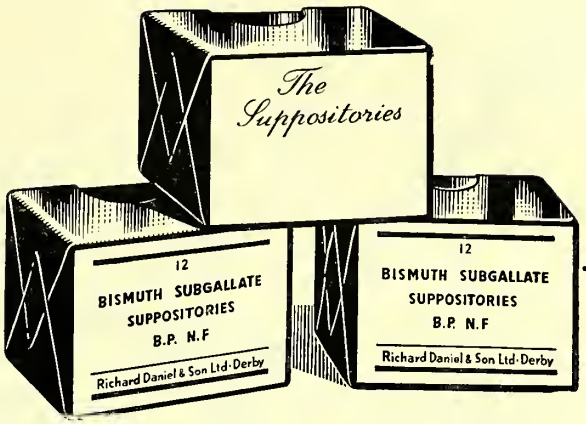
THE DISTILLERS COMPANY (BIOCHEMICALS) LIMITED, SPEKE, LIVERPOOL

28a/54

Dispensing packs

of

SUPPOSITORIES



Manufactured by Skilled Labour
from Highest Quality Materials

Supplies of all the usually prescribed types in stock.

Suppositories to special formula requirements can be supplied in 2—3 days

PRICE LIST ON APPLICATION

RICHARD DANIEL & SON LIMITED

MANSFIELD ROAD · DERBY Tel.: 48266 (4 lines)

and at Grosvenor Street, Ashton-under-Lyne. Tel. : 2816 (3 lines)



Chemists' Labels
by
THOMAS WAIDE & SONS LTD
KIRKSTALL HILL LEEDS

the convalescent—
the overworked—the aged

Good for them—
Good for you

John Bell's
TONIC PHOSPHATES

EASY to take and easy to sell this fine glycerophosphate and strychnine tonic, with a pleasing aroma, is in constant demand throughout the year. This means good business for you so order now.

Size.	*Retail*	*Trade Price*
4 oz.	2/4⅓ a bottle (Inc. Tax)	14/6 doz. (P. Tax 3/7½d.)
8 oz.	4/1 ,, (Inc. Tax)	24/6 doz. (P. Tax 6/1½d.)
16 oz.	7/3 ,, (Inc. Tax)	43/- doz. (P. Tax 10/9d.)

JOHN BELL, HILLS & LUCAS, LTD., Oxford Works, Worsley Bridge Rd., London, S.E.26

G&G

The Silky Soft Absorbent Tissue that is preferred

Vanity

HANKIE TISSUES
RETAILS FROM 1/6d.



Tissues have come to stay—it's just a case of selling the BEST to make and keep customers. VANITY are produced by THE PAPER SPECIALISTS—packed attractively and come to you in display cartons worthy of your windows and counters

4d.
POCKET PACK
for Travel, School, etc. (24 large size White Tissues)
In the carton that does not disintegrate in use.

BOUDOIR CARTONS
(150 in White or assorted Pastel colours) or Cellophane Wrapped 150 and 180; assorted shades if required.

FREEDER BROTHERS PAPER MILLS
BRIMSDOWN, ENFIELD, MIDDLESEX
Telephone: Howard 1847 (3 lines) *Telegrams: Sylkocrepe, Enfield, Middlesex*

VARICOSE VEINS

2-WAY STRETCH
ELASTIC HOSIERY



This hosiery gives full two-way support and is invisible under most ordinary stockings.

available in the following styles

NYLON YARN
Seamless, sheer and fully fashioned.
Proofed for ladder resistance.
Reinforced closed heel.

LASTEX YARN TYPE
Seamless, fully fashioned, durable.
Proofed for ladder resistance.
Reinforced closed heel.

Write for prices, material samples, measurement chart and order forms

COLBY PRODUCTS LIMITED
314 EUSTON ROAD, LONDON, N.W.1

CARTERS OF COLEFORD
MAKERS OF *Ribena*

Announce

A Special Window Display Bonus Scheme

for *Rosena

ROSE HIP and ORANGE
with EXTRA GLUCOSE

In return for 14 days' continuous Window Display of ROSENA we will give you a special Bonus of

2 extra bottles for every two dozen ordered

before April 30th 1954

Whether ordered direct or through wholesaler

1 dozen: . . 27/- per dozen
6 dozen: . 26/4d „ „
12 dozen: . 24/8d „ „

***Rosena** is exceptionally rich in the vitamins of both Rose Hips and Oranges. It also contains three energising sugars—cane sugar, fruit sugar and Glucose. Rosena is particularly suitable for children from two weeks after birth to ten years of age. Its sweet flavour has been specially blended to suit them. Concentrated. Retail Price 2/10d. a bottle.

H. W. CARTER & CO. LIMITED
The Royal Forest Factory, Coleford, Glos.
Tel.: Coleford 3201

P.A.T.A.

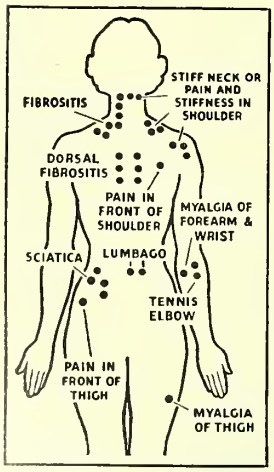
Fastest turnover makes Lloyd's

the most profitable Adrenaline Cream!



NOT ONLY IS LLOYD'S the fastest-selling Adrenaline Cream, it is also one of the biggest selling of *all* rheumatism treatments. This makes Lloyd's the most profitable Adrenaline Cream you can stock. REPEAT SALES SHOW also that Lloyd's Adrenaline Cream does what it claims to do—it does relieve rheumatic pain. Persistent, sincere advertising is telling more and more rheumatism sufferers of this still new remedy. These are good reasons for examining your stocks to see whether you have sufficient to take advantage of this continuing demand.

LLOYD'S ADRENALINE CREAM



THIS DIAGRAM is well known to the public through continuous featuring in Lloyd's advertising. Showing treatment areas for rheumatic pain, it arouses real interest in rheumatism sufferers and brings them into the shops to buy Lloyd's.

ATTRACTIVE DISPLAY MATERIAL can be obtained free from us. Counter and window displays tie in with advertising to boost sales—try them yourself. Lloyd's Adrenaline Cream retails only through chemists, at 7/- and 5/- in jars, and at 3/- in tubes.

All enquiries and requests for display material to

Howard Lloyd & Co. Ltd.

SALES OFFICE: 11 WATERLOO PLACE, LONDON, S.W.1

ORDER NOW FROM YOUR WHOLESALER

Introducing the

NEW

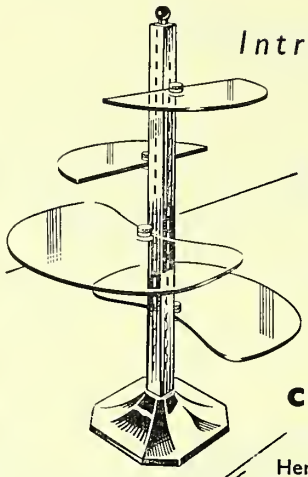
HOKON

DISPLAY STAND

WITH

CLIP BRACKETS

(for individual shelves)



Here's the latest and brightest of the Hokon aids to faster, more adaptable displays. Just one neat Clip Bracket holds each glass shelf rigidly but gently — the bracket's two lugs slot into any position in the Hokon column. Note particularly the prices.

IN TWO SIZES

2 ft. high, supplied with two large and two small glass shelves—Circles, Half-Circles, Kidney or Oval. Chrome plated **£4.0.0** complete. Brown-Bronze **£3.13.6**

3 ft. high, with three small and three large shelves, Chrome plated **£6.0.0.** Brown-Bronze **£5.10.0**

CHURCH & CO. (FITTINGS) LTD.

16, THE ORACLE, MINSTER STREET, READING

Showrooms. GLASGOW: 77 Queen Street, C.1.
ABERDEEN: 121 Crown Street. LEEDS: 17 Belgrave Street.

CENTENARY 1845-1945



"Eagle" Brand Chemicals

PHOTOGRAPHIC CHEMICALS
HYPOSULPHITE SODA
SULPHITE SODA
(Crystals and Anhydrous)
EPSOM SALTS B.P.
GLAUBER SALTS B.P.
PRECIPITATED SULPHUR B.P.
ACCUMULATOR ACID

Enquiries Invited

JOHN RILEY & SONS, LTD

HAPTON, NR BURNLEY

Grams: "Rileys" Hapton *Phone: Padiham 2901*

NOW AVAILABLE!

IN 80 UNIT STRENGTHS

Novo SEMILENTE Insulin

80 units per ml.

★

Novo ULTRALENTE Insulin

80 units per ml.

VIALS OF 10 ml.

EVANS

EVANS MEDICAL SUPPLIES LTD

LIVERPOOL & LONDON

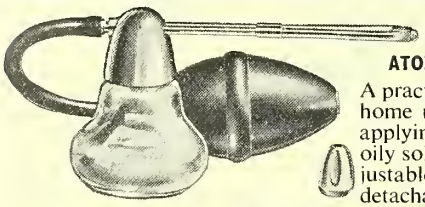
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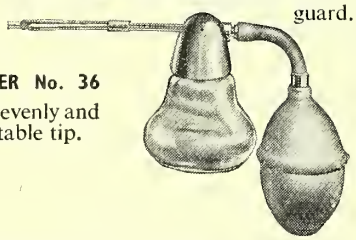
Designed for specific uses –

DeVilbiss atomizers

DeVilbiss offer for general use a complete series of instruments that satisfy the highest medical requirements.

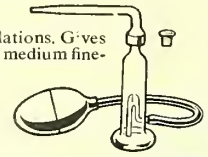


ATOMIZER No. 15
A practical hospital and home use atomizer for applying aqueous and oily solutions. With adjustable spray tip and detachable fluted nasal guard.

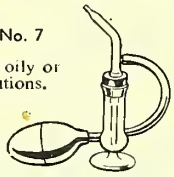


POWDER BLOWER No. 36
Diffuses powder evenly and perfectly. Adjustable tip.

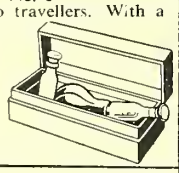
ALL-GLASS NEBULIZER No. 5
For inhalations. Gives a mist of medium fineness.



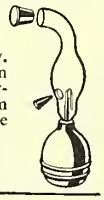
ALL-GLASS ATOMIZER No. 7
Suitable for oily or aqueous solutions.



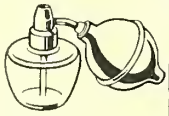
ALL-GLASS POCKET NEBULIZER No. 6
Invaluable to travellers. With a vial to hold extra solution.



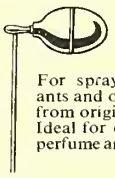
ALL-GLASS NEBULIZER No. 40
For aerosol therapy. Volume of vapour can be increased by removing the stopper from the vent hole in the side.



NASAL ATOMIZER No. 20
Produces a medium spray from either oily or aqueous solutions.

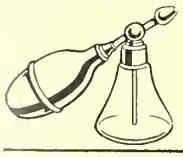


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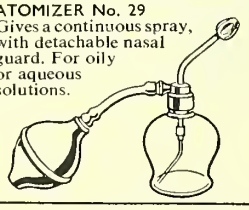


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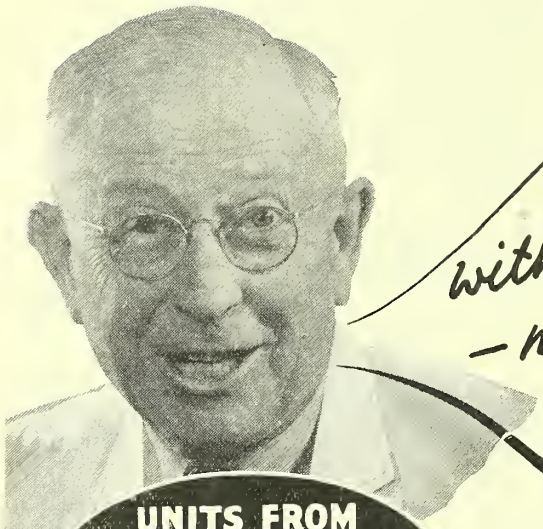
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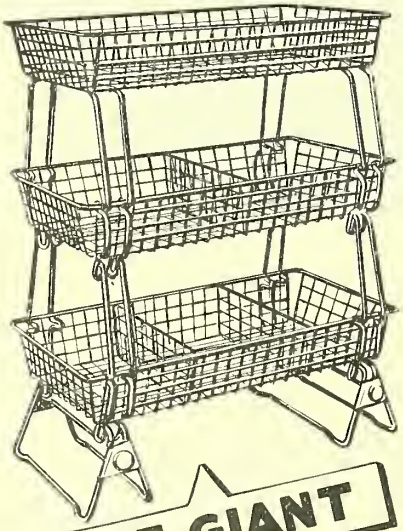
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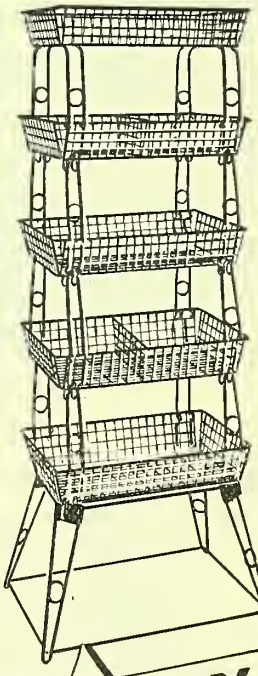
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 161 March 27, 1954 No. 3866

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The CHEMIST AND DRUGGIST

Volume 161 MARCH 27, 1954 No. 3866

Chemical Industry Today

MANUFACTURERS REPORT PROGRESS

A REPORT by the Association of British Chemical Manufacturers on the chemical industry in Great Britain in 1953 and the prospects for the years up to 1957 gives a picture of a buoyant and progressive industry, which although again meeting strong competition from the United States, Germany and Japan, continues to expand and to plan further expansion.

The report is a supplement to "Report on the Chemical Industry, 1949" (*C. & D.*, 1950.I.148), and compares the situation at the end of 1952 with that in 1948 in respect of capital, employment, research and development, production and productivity, imports and exports. The vitality of the industry is reflected in the following facts and figures:—

CAPITAL employed has risen since 1948 from £230 millions to £406 millions.

TOTAL EMPLOYMENT has increased from 141,817 to 151,349 and scientific staff from 6,176 to about 7,406.

EMPLOYED CAPITAL per employee was nearly £2,700 in 1952, compared with £1,600 in 1948.

PRODUCTION has increased by 29 per cent. in volume (compared with 15 per cent. for all manufacturing industries) with an estimated increase in value of some 60 per cent.

PRODUCTIVITY showed a marked increase—21 per cent. on a volume basis, and 51 per cent. on a value basis.

RESEARCH and DEVELOPMENT annual expenditure increased from £8·5 millions in 1948 to £11·2 millions in 1952.

EXPORTS have risen from £88·25 millions in 1948 to £151·7 millions in 1952 (an increase of over 70 per cent.).

EXPANSION PLANS for the next five years are estimated at £230 millions against just over £190 millions at the end of 1948.

The industry, says the report, expects not only to be able to anticipate, and meet, the new requirements of Britain's consuming industries, with their changing technologies, but also to hold its own in the markets of the world. It realises that many countries, hitherto producers of primary products, are establishing their own manufacturing industries and a decline in the exports of some basic heavy chemicals from this country can be expected. Nevertheless, the industry is confident of maintaining its leading position by means of the many specialities—such as high-quality pharmaceuticals, fine chemicals, dyestuffs and plastics.

The report becomes available, price one shilling, from the Association on March 29.

DINARD CONGRESS

Calendar of events

AT a meeting of the Franco-British Pharmaceutical Commission held in London recently, the following programme for the 1954 Congress was presented by the French organisers:—

May 27. Leave London. Informal dinner in Dinard.

May 28. Meeting at the Casino. Official welcome. Reading of papers on veterinary pharmacy by a French and a British speaker, followed by a discussion. Lunch. Afternoon free. Evening, banquet at the Casino.

May 29. Excursion to Mont St. Michel. Apertifs at Cancale. Return via Dinan. Informal dinner at Dinard.

May 30. Return to London.

All members of the Pharmaceutical Society and their friends are invited to take part. The main British party is travelling both ways by air. Those travelling independently pay £12 for all expenses at Dinard from dinner on May 27 to breakfast on May 30 inclusive. The combined cost is £22. Application forms may be obtained from the Franco-British Pharmaceutical Commission, 17 Bloomsbury Square, London, W.C.1.

HOSPITAL PHARMACY

New association formed

AT a meeting held at University College Hospital, London, on March 11, it was decided to form an Association of Teaching Hospital Pharmacists. A representative from each undergraduate teaching hospital in England and Wales was present. In a statement issued after the meeting it was announced that the principal object of the Association is the promotion of efficiency in the hospital pharmaceutical service with special reference to the problems of teaching hospitals. The Association will not concern itself with the salaries and conditions of service of its members. Membership is limited to chief pharmacists of the London teaching hospitals and to chief pharmacists of provincial teaching hospitals on the basis of one to each board of governors. It is proposed to hold about four meetings a year. Mr. J. B. Lloyd, Manchester, has been elected *Chairman*, and Mr. W. Trillwood, Oxford, *Secretary*.

STORING PENICILLIN

Effect of citrate on solutions

A PRELIMINARY report issued recently by the bacteriostatics subcommittee of the conference on the control of antibiotics appointed by the Ministry of Health refers to recent work on the efficacy of sodium citrate in stabilising penicillin solutions. The report states that the stabilising power of the salt diminishes with increasing concentration of penicillin and is inadequate when the strength of penicillin is of the order of 500,000 i.u. per mil stored at 25°C. That conclusion was based on tests on solutions containing 50,000, 150,000, 300,000, and 500,000 i.u. of penicillin per mil. Half the number of samples of each strength was prepared from a mixture of penicillin with 4 per cent. of sodium citrate. Separate series of solutions of each concentration were stored at 4°C and 25°C. Each solution was assayed at four days, eight days and sixteen days from the start of the experiment. A similar series of experiments tested solutions containing 100,000 or 500,000 i.u. per mil of penicillin treated with 0·1, 1, 3, 4 or 5 per cent. of sodium citrate. Solutions were assayed at the start of the experiment and one day, four days and seven days thereafter. The results were: 1. Solutions containing 500,000 i.u. per mil of penicillin with 5 per cent. sodium citrate do not retain potency for four days at 25°C. 2. There is no significant loss of potency after four days at 25°C. in solutions containing 100,000 i.u. per mil of penicillin stabilised with 4 or 5 per cent. of sodium citrate. 3. Solutions containing 50,000 to 500,000 i.u. per mil of penicillin stabilised with 4 per cent. of sodium citrate will retain their potency for eight days at 4°C. The percentages of citrate quoted are those of the salt in the mixture used for preparing the solutions and not the concentrations of citrate in the solutions themselves.

ASIATIC TRAINEES

Reception in London

AT a reception held in London on March 16, the British Council introduced about fifty trainees from India, Pakistan, Ceylon, Burma, Nepal, the Philippines and Thailand, who are studying in Britain under the auspices of the Colombo Plan. MR. JOHN FOSTER (Parliamentary Under-secretary of State for Commonwealth Relations) explained that under the plan, which came into operation in 1950, there were now 234 trainees in Britain, 106

of them in the London area. Since the scheme began, 493 trainees had come to the United Kingdom. The plan had been devised by a meeting of Commonwealth Forcign Ministers held in Colombo in 1950 to raise the standard of living in South and South-east Asia partly by assisting persons to acquire technical training. The trainees present included Messrs. A. M. M. Khan, Pakistan, studying pharmaceutical chemistry (with special reference to research on antituberculosis drugs) at the School of Pharmacy, University of London; N. Jayatunge and S. M. Ramanathan, Ceylon, studying the chemistry of food and drugs at various centres; Gurdas Singh, India, studying anti-locust training at the Anti-locust Research Centre, London; and Miss M. A. E. Perera, Ceylon, a hospital matron studying the treatment of tuberculosis at Arlesey Hospital, London.

PATIENTS' HOSTEL

Scheme for Rheumatism Treatment

THE British Rheumatic Association has opened at Bracken Hill House, Northwood, Middlesex, the first of a number of hostels linked with hospitals providing diagnosis and treatment of rheumatism. Patients at Bracken Hill House will be diagnosed and treated at Mount Vernon hospital, Northwood. Nominees of companies or trade associations investing staff welfare funds in the project are guaranteed admission without delay. The development is a result of the shortage of beds in hospitals with modern rheumatic units, and is designed to reduce, by the provision of early diagnosis and treatment, absenteeism through rheumatism in industry. Full particulars are obtainable from the British Rheumatic Association, 11 Beaumont Street, London, W.1.

SCOTTISH NEWS

New Drug Tariff

A NEW edition of the Scottish Drug Tariff is being sent to all chemist contractors in Scotland before April 1. A series of notes has been added on page four of the new Tariff. Note 1 on elastic hosiery and trusses requires prescribers to write out a detailed prescription for any of those appliances required. The supplier should not supply the appliance unless he has all the necessary details, but should refer the order to the prescriber for completion. In order to help prescribers, details of the types, etc., have been printed on pages fifty-six to sixty-one. Note 2 requires chemists to notify the Executive Council when oxygen apparatus has been on hire from them for more than fourteen days. The chemist should at the same time endorse the prescription form "E.C. notified," so that payment may be made for more than the two week's period. The Council will then get in touch with the prescriber to ensure that the apparatus is still required. Note 3 deals with rectified spirit. Paragraph (1) provides that, in medicaments for external use, industrial methylated spirit should be substituted for rectified spirit unless the prescriber specifically directs otherwise. Paragraph (2) provides that payment for rectified spirit will be made on the assumption that rebate has been claimed from Customs and Excise unless the chemist has endorsed the prescription "Rebate not claimed." The following modifications have been made to the list of appliances:—(a) A maximum net cost price of 15s. has been fixed for nebulisers; (b) various types of suprapubic catheters which may be supplied only when specifically ordered by the prescriber have been detailed. The new provisions come into effect on April 1.

LOCAL NEWS

Scheme for Urgent Prescriptions

FOLLOWING consultations at West Hartlepool, co. Durham, between the local Medical and Pharmaceutical Committees and the local Executive Council, a scheme has been adopted for the dispensing of urgent medicines after normal dispensing hours. Cards have been printed and sent to doctors in the area, showing the names and telephone numbers of chemists who are prepared to dispense urgent medicines after normal hours. Doctors are asked, in the event of their requiring an urgent medicine to be dispensed for a patient, to telephone the chemist nearest to the patient's home. The chemist undertakes to collect the prescription, dispense it, and deliver it if necessary. It was agreed during consultations on the scheme that patients would greatly appreciate this service, since many of them had no telephone and did not know where to find or how to use one, and often had to call on the police for assistance in finding a chemist. Since the scheme has been in operation, the number of calls made on chemists' services during the night has decreased considerably and those made have been for genuinely urgent prescriptions.

Manchester Golfers' Dinner

DONORS of prizes for competitions during the previous season were entertained at the annual dinner of the Manchester Chemists' Golfing Society on February 26, and the members stood in silence as a token of respect for their late president (Mr. Tom Miller). After dinner a member of the Magic Circle entertained. The secretary intimated that he would be glad to hear from pharmacists in the Manchester district who are interested in golf. The following officers were elected for 1954-55: *President,* Mr. J. A. Collins; *Captain,* Mr. G. Morgan-Evans; *Treasurer,* Mr. S. D. Andrew; *Handicap Secretary,* Mr. R. Demaine; *Secretary,* Mr. W. E. Phillipson, 1 Ruthin Avenue, Allerington, Middleton, nr. Manchester.

Sales Conference

THE annual sales conference of William Freeman & Co., Ltd., Suba-Seal Works, Peel Street, Barnsley, was held recently. Forty new items for future release were included in a review of the company's products. At the end of the conference the executive staff and sales force met at a dinner given by the chairman and managing director of the company (Mr. W. S. Freeman).

Unfair N.H.S. Regulation ?

THE Liverpool Executive Council has passed a resolution stating that it views with concern the provision in the National Health Service Regulations whereby the Minister of Health can, in the absence of any appeal by a complainant, over-ride and reverse a decision by a Council that a practitioner or chemist has not failed to comply with the terms of his service. That provision, it contends, is most inequitable to practitioners and chemists and reflects unfavourably on the ability of the Council to reach a proper decision on the facts placed before it.

Students Visit Factory

A PARTY of pharmacy students from Brighton Technical College recently visited the Greenford, Middlesex, headquarters of Glaxo Laboratories, Ltd., where they were received by Mr. L. F. Kitch. During their tour the students met members of the research division staff, and were able to watch operatives filling streptomycin vials under aseptic conditions. Among the departments visited were the tablet-making section, analytical laboratory and the ampoule-filling department.

Wine Licence Applications

AT local brewster sessions recently applications for wine off-licences made by Messrs. R. E. Culshaw, M.P.S., 47 London Road, Preston, Lancs; D. R. Gibbon, M.P.S., 104 Llewellyn Street, Pentre, Glam, and Henry Sykes & Son (Chemists), Ltd., 218 Wakefield Road, Huddersfield, Yorks, were granted. An application made by the Preston Industrial Co-operative Society, Ltd., for its pharmacy at 17 Friargate, Preston, was refused.

IRISH NEWS

Archbishop at Society's College

MEMBERS of the Pharmaceutical Society of Ireland, its Council, professors of the college of pharmacy in Dublin, and many students were present at the college on March 21 when the Most Rev. J. C. McQuaide, D.D. (Archbishop of Dublin) visited and blessed the college. Members of the Society and students lined the route to the entrance as the Archbishop arrived. His Grace was received on behalf of the Society by the president (Mr. M. Costello), the vice-president (Mr. P. F. McGrath), the treasurer (Mr. H. P. Corrigan) and the registrar (Mr. J. G. Coleman). The clergy with the Archbishop were the Very Rev. T. B. Condon (parish priest of Donnybrook, within which parish the college is situated), the Rev. A. F. Camac, C.C., the Rev. C. P. Crean, C.C., the Rev. Senan Crowe, O.P., the Rev. B. Barry, S.J., the Rev. G. Sheehy, and the Rev. L. Martin. The Archbishop accompanied by the clergy and the officers of the Society first went through the building blessing the various rooms including the Council chamber, assembly hall, laboratories, and class rooms, and then in a packed assembly hall presided at a Mass celebrated by the Very Rev. Father Condon. When the religious ceremonies

were completed the Archbishop and visiting clergy were entertained by the president and members of the Council in the Council chamber. The ladies who arranged the catering for the Archbishop's visit, and for the student body which held a one-day retreat in the afternoon, included Miss Rose Murphy, Mrs. M. Costello, Mrs. T. B. O'Sullivan, and Mrs. D. Kennelly.

New Pharmaceutical Body

A NUMBER of pharmacists in the Dublin and Dun Laoghaire areas have formed a new Irish pharmaceutical organisation: the Irish Chemists' Representative Organisation. A recently issued circular states that the new body was founded "to cater for the urgent needs of present-day pharmacy." The incentive to establish the new body sprang from the proposed regulations governing medical care for mothers and infants under the Health Act, 1953. The circular continues: "The consolidation of everybody on the register of the [Pharmaceutical] Society [of Ireland] into one solid block to fight for and protect the profession by every possible means at its disposal, to maintain our traditional status as being the only body qualified to supply medicines, medical and surgical requisites, baby foods, and all other requirements appertaining to the health of our population, is the object of this organisation." Inviting chemists to join, the founders say they intend to be the "fighting arm of pharmacy." The signatories to the circular are Messrs. Patrick Burke, James Coffey, D. Cronin, Thomas Dempsey, John Flynn, Peter Leydon, Richard O'Higgins, Frank McKenna, and Robert Semple.

An Elucidation

IN the report of the March meeting of the Council of the Pharmaceutical Society of Ireland (*C. & D., March* 20, p. 293) the words "Mr. O'Rourke said he opposed everything in the proposals, but there was nothing to oppose until recently" are part of Mr. P. F. McGrath's remarks, and should not be attributed in error to Mr. O'Rourke himself.

NEWS IN BRIEF

Drug Tariff Date. — Copies of the Drug Tariff, April 1954, are not expected to be distributed before the second week in May.

Training Biologists.—The teaching of biology in schools, technical colleges and universities will be discussed by teachers and representatives of employing bodies at a meeting to be held in London on April 21-22. A programme for the meeting is available from the general secretary, Institute of Biology, Tavistock House South, Tavistock Square, London, W.C.1.

Customs Duty on Toilet Paper.—The Import Duties (Drawback) (No. 1) Order, 1954 (S.I. 1954 No. 257) continues for a further year (i.e., until March 14, 1955), the drawback on customs duty allowable on certain kinds of paper used in the manufacture of toilet paper, in rolls or packets, when that paper is exported or shipped as stores.

TOPICAL REFLECTIONS

By Xrayser

N.P.U. Conference in Wales

The conference of Welsh members of the National Pharmaceutical Union reported on pp. 288-89 had a full agenda, and it is clear that much useful work was done. Those present were fully justified in deciding to make this type of meeting an annual fixture. Without attempting to comment on many of the subjects discussed, I should like to add a few thoughts to those in your first editorial article on p. 295. The purposes of the N.P.U. business purchase and guarantee fund were brought into the foreground at one stage of the proceedings: this comparatively recent development in the activities of the Union seems to be fulfilling the desires of its promoters. As one who has had experience of partnerships, I venture to offer a caution to anyone proposing to accept the responsibilites that such an engagement involves. Unless a deed of partnership is very carefully drawn, it may sooner or later bring unhappy disputes between the partners, though they may have commenced their term of years with complete good will. The statement that "almost 100 per cent. of cosmetic manufacturers had offered to share the loss if a reduction of tax rate occurred" is welcome. This is a gesture that cannot fail to increase harmony between suppliers and retailers. The Welsh conference at Porthcawl is a worthy addition to area gatherings of pharmacists already held.

A Choice of Titles

The interesting letter of Mr. Leslie G. Matthews (p. 296) headed "The Title 'Chymist'" is a reminder that many years elapsed before the various titles of persons or firms carrying on retail trade in medicines crystallised, so to speak, into two, apothecary and chemist and druggist. Before we leave your correspondent's William Radley of Holborn in London, who in 1782 was succeeded by John Stable, it may be recalled that the business is linked with the present day by the fact that Stable took into partnership John Evans, and that on Stable's retirement Evans was joined by J. S. Lescher; from that beginning has developed Evans Medical Supplies, Ltd. In the latter part of the eighteenth century eleven variations of the descriptions "apothecary," "chemist," "druggist" (singly or combined) were in use. In addition, a physician or a surgeon sometimes added "chemist" to his title. We may infer that the range of medicaments in all these shops was similar. As time went on, the importance of the chemist as a tradesman increased. The apothecary had to leave his shop, if he had one, while visiting patients. A count based on London records shows that for the years 1731-80 the number of chemists and apothecaries (including apothecaries and chemists), added to the number of druggists and apothecaries (including apothecaries and druggists), did not quite equal the number of chemists and druggists.

Royal Society of Arts

One of the most delightful buildings in London, externally and internally, is the premises of the Royal Society of Arts, the subject of an article on pp. 298-99. Any of your readers who have not seen it should do so before quiet John Adam Street is ruthlessly modernised. The Society went there in 1774 after occupying various temporary homes. A few facts additional to those in your description are worth mention. Walford's "Old and New London" states that in 1776 the Society proposed to the Royal Academy of Arts that some members of the Academy should decorate the council room in John Adam Street, and that their remuneration should be the public display of the work. But the Academy, then headed by Sir Joshua Reynolds, rejected the proposal. In the following year one of the Academicians, James Barry, offered to decorate the room without charge. Six large pictures, the painting of which was spread over seven years, were the result. The word "physeter" is, I see, still known, though in a different context from that on p. 299. Dr. Cummings's sudatory, shown on the same page, had a prototype in a device by Johann Rudolph Glauber (1603-70).

G

COMPANY NEWS

Previous year's figures in parentheses

EVANS MEDICAL SUPPLIES, LTD. — Dr. G. F. Hargreaves, M.B., B.Ch. (Cantab.), M.A., has been appointed an assistant medical director at The Evans Biological Institute.

M. J. FECHER, LTD., 175 Bath Road, Slough.—Messrs. Caspar C. Fecher and Hubert M. Fecher will continue the business as joint managing directors following the death of their father, Mr. M. J. Fecher (see p. 312).

COW & GATE, LTD.—Group profit for the year ended September 30, 1953 was £1,061,590 (£749,434). Tax credit adjustments and items of an exceptional nature, etc., raise the balance to £1,290,617 (£841,065), from which tax provisions absorb £778,299 (£533,838), leaving a net profit of £512,318 (£307,227). The dividend recommended on ordinary capital is 17½ per cent. (15 per cent.).

THE WELLCOME FOUNDATION, LTD.—Authorised capital has been increased to £3 millions from £1 million. With the consent of the Capital Issues Committee the issued capital has been increased to the same amount by capitalising reserves and issuing the additional shares to the sole shareholders, the trustees of the will of Sir Henry Wellcome. The company state that the capital increase will bring the issued capital more into line with the capital actually employed in the business and it foreshadows a large programme of expansion commencing with a new £350,000 pharmaceutical manufacturing unit at the Wellcome Chemical Works, Dartford. Work has already started on it.

BOOTS, LTD. — Mr. L. Anderson, F.R.I.C., M.I.Chem.E. (a director of Boots Pure Drug Co., Ltd., and production manager of fine chemicals and antibiotics), is retiring on March 31, and Mr. S. Harker-Smith, T.D., M.A., has been appointed to the board from April 1. Mr. E. A. Harvey, M.Sc., F.R.I.C., has been appointed a director of Boots Cash Chemists (Eastern), Ltd. Following Mr. Anderson's retirement, Mr. H. S. Hibbins, F.P.S., will now be the director of all production for Boots Pure Drug Co., Ltd., Mr. K. H. Harper, M.A., M.P.S., will become production manager of pharmaceuticals, and Mr. E. A. Harvey, M.Sc., F.R.I.C., will be production manager for fine chemicals and antibiotics.

New Companies

P.C. = Private Company; R.O. = Registered Office

A. T. BAKER (CHEMISTS), LTD. (P.C.).—Capital £100. To acquire the business of chemists and photographic dealers carried on at 40 Peascod Street, Windsor. Directors: Emma I. Baker, M.P.S., and Doreen M. C. Baker.

CROSSIN, CHEMISTS, LTD. (P.C.).—Registered in Belfast. Capital £7,000. To carry on the business of chemists, druggists, etc. Subscribers: Hugh Crossin, M.P.S.N.I., 8 Cranmore Avenue, Belfast, and Eileen Crossin.

J. HASELHURST, LTD. (P.C.).—Capital £5,000. To carry on the business of chemists, druggists, etc. Directors: John Haselhurst, M.P.S., Alice Haselhurst and Cecil Sparks. R.O.: 117 Villa Road, Birmingham, 19.

G. L. MARKS, LTD. (P.C.).—Capital £1,000. To acquire the business of a pharmaceutical chemist carried on by Grace L. Rein, M.P.S., as G. L. Marks at 15 Whitehall Terrace, Sunderland. Directors: Grace L. Rein and Max Rein.

JUDD'S CHEMISTS (PITFIELD), LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing chemists, druggists, opticians, etc. Directors: Harry Judd, Barbara Judd and Norman G. Cole, M.P.S. R.O.: 43 Upper Berkeley Street, London, W.1.

E. T. S. STEEL, LTD. (P.C.).—Capital £5,000. To acquire the business of a pharmaceutical chemist carried on by Edwin T. S. Steel, M.P.S., at 58 East Street, Southampton and at Hythe, Hants. Directors: Edwin T. S. and Dorothy L. M. Steel.

MEDIPHARM LABORATORIES, LTD. (P.C.).—Registered in Dublin. Capital £5,000. To carry on the business of chemists (wholesale or retail), drysalters, etc. Subscribers: J. R. Quirke, 15 South Frederick Street, Dublin, and B. Walsh. First directors are not named.

JOHN LAIRD & CO., LTD. (P.C.).—Registered in Dublin. Capital £10,000. To carry on the business of manufacturing chemists, etc. Subscribers: William P. Lynch, 11 Portland Row, North Strand, Dublin, and Benjamin Corr. First directors are not named.

SANTONIN MARKETING CO., LTD. (P.C.). — Capital £6,000. To manufacture, prepare and produce santonin and compounds containing santonin. Power is also taken to carry on the business as flower, fruit and vegetable growers, etc. Directors: Denys L. T. Oppe, Leslie W. Dodds, Edmond R. H. Pollak, and Henry A. Donnan. R.O: 4 Grafton Street, London, W.1.

LEGAL REPORTS

Cortisone to Greyhounds. — At Coventry quarter sessions, recently, prison sentences totalling four-and-a-half years were imposed on three men found guilty of conspiring to administer cortisone tablets to greyhounds.

Jury Finds Chemist "Not Guilty."— At the County Armagh Assizes, Northern Ireland, on March 18, the jury returned a verdict of not guilty in a case in which Alfred L. Martin, M.P.S.N.I., Portadown, was charged with attempting to obtain 15s. 2½d. from the Northern Ireland General Health Services Board by falsely, and with intent to defraud, pretending he had supplied a surgical elastic stocking to a patient, Julia McIlroy, Portadown, and of attempting to obtain 17s. 11d. from the Board by falsely, and with intent to defraud, representing that he had supplied a surgical stocking to another patient, Dorothy Johnston, and that he had fitted her for it. Two doctors stated in the witness box that in each case one elastic stocking had been prescribed, but the letter "s" had been added to the word "stocking." Patients witnessed that they had not changed the prescription which they brought to Mr. Martin. Martin in evidence stated that in the summer of 1953 he had employed a pharmaceutical chemist (Miss Anne Staunton), who had dispensed and coded prescriptions and assisted in getting them ready for the pricing bureau. He (witness) did not take part in that work, but if he was there he prepared the parcel. He did not alter the prescriptions at all. In September 1953 he was on holiday and was less in the shop. He did not remember either Mrs. Johnston or Mrs. McIlroy being in his shop. Miss Anne Staunton said that part of her duty was coding prescriptions. She had not altered either of the two prescriptions. In cross-examination she admitted that an official, looking at the prescription with her marks on it, might conclude that it was for two stockings. A *nolle prosequi* was entered in seven other charges.

GOVERNMENT RESEARCH

Report for 1952-53

THE report of the Department of Scientific and Industrial Research for 1952-53 published recently (H.M. Stationery Office, price 8s.) deals among other things with the work of the chemical research laboratory. In the microbiology group work has concentrated on how to obtain from sewage sludge the maximum yield of hydrogen sulphide produced by bacterial reduction. One discovery made was that the cells of sulphate-reducing bacteria contain cytochromes (compounds performing a function similar to that of haemoglobin in the blood). The function of the cytochromes in the bacteria is not yet understood. In the organic group the discovery of the therapeutic properties of isonicotinic hydrazide stimulated research into methods for separating bases since γ-picoline hitherto of no practical interest became an intermediate for the preparation of the drug. The laboratory developed a method of estimating isonicotinic acid in mixtures of isomeric acids. Its programme has been extended to include work on chemical engineering problems, and an advisory committee has been set up.

The pest-infestation laboratory included in its work experiments with DDT and BHC in the control of blowflies in refuse. On a costs basis, dusts were found more effective than emulsions, and DDT better than BHC. The most effective treatment found was a twice-weekly application of 5 per cent. DDT dust which gave an overall control of more than 99 per cent. Experiments with radioactive pyrethrins on house flies showed that, when used alone, the pyrethrins were destroyed enzymically by the insect but when in conjunction with a pyrethrin synergist gave no evidence of destruction.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

SIR LEONARD ROPNER asked the Minister of State, Board of Trade, what arrangements were being made to mine the potash deposits at Aislaby, Yorks. MR. HEATHCOAT AMORY, in a written reply on March 15, said that it was primarily a matter for the two firms concerned, but the Minister of Materials was keeping in touch with them. He understood they were still examining the difficult financial and technical problems involved.

Detergents

THE PARLIAMENTARY SECRETARY TO THE MINISTRY OF HOUSING AND LOCAL GOVERNMENT (Mr. Ernest Marples) told LIEUTENANT-COLONEL M. LIPTON on March 16 that the interim report of the committee on synthetic detergents would be published soon.

Industrial Research

THE PARLIAMENTARY SECRETARY TO THE MINISTRY OF WORKS (Mr. J. R. Bevins) told MR. A. H. ALBU in a written answer on March 16 that the estimates of the Department of Scientific and Industrial Research for 1954-55 provided for an additional £91,500 for industrial research associations. No general revision was contemplated.

Lung Cancer Research

MR. J. R. BEVINS told Lieutenant-Colonel M. Lipton on March 16 that the first instalment of the £250,000 donated to the Medical Research Council by the tobacco companies for lung cancer research (see *C. & D.*, February 20, p. 197, and March 13, p. 253) had been received by the Council. There will be six more equal instalments.

Number of Cancer Cases

THE MINISTER OF HEALTH (Mr. Iain Macleod) told MR. N. N. DODDS on March 18 that effective registration of new cases of cancer in hospitals in England and Wales which were 23,239 in 1945, 40,333 in 1947 and 49,110 in 1948 was expected to be about 58,000 in 1953. The last figure was estimated to be about half the total probable number of new cases of cancer in England and Wales in 1953.

Elastic Hosiery

THE PARLIAMENTARY SECRETARY TO THE MINISTRY OF HEALTH (Miss P. Hornsby-Smith), answering MR. J. HARRISON on March 18, said that her Department designated the fabric required for elastic stockings but not the brand (see *C. & D.*, March 20, p. 286).

Prescribing Costs

MR. A. BLENKINSOP asked the Minister of Health on March 18 when he expected to introduce area averages of prescribing costs in England and Wales, in view of the commencement of a similar scheme in Scotland. THE PARLIAMENTARY SECRETARY TO THE MINISTRY (Miss P. Hornsby-Smith) replied that the matter was under discussion with the chemists and with the Joint Pricing Committees.

MR. BLENKINSOP asked whether, since pricing was sufficiently far forward to make the matter reasonably practicable, Miss Hornsby-Smith appreciated the importance of giving the extra responsibility to doctors to check their own prescribing costs as probably one of the best ways of keeping costs down? MISS HORNSBY-SMITH: I recognise that, but it is essential to clear arrears first before starting on a new and complicated scheme.

In a written answer to MR. S. HASTINGS on March 18 THE PARLIAMENTARY SECRETARY TO THE MINISTRY OF HEALTH (Miss P. Hornsby-Smith) gave the total cost of National Health Service prescriptions in England and Wales and the average cost per prescription [shown in parentheses], during 1949, 1950, 1951, 1952, and the first six months of 1953 as £3,331,303 (36·04d.); £34,804,535 (38·47d.); £41,662,534 (43·91d.); £43,768,599 (48·63d.); and £23,898,821 (49·15d.) respectively.

Assistance for N.H.S. Charges

MAJOR ROBERT H. TURTON (Joint Parliamentary Secretary, Ministry of National Insurance) informed MRS. L. JEGER in a written reply on March 18 that the total amount of assistance granted for National Health Service charges from May 1951 to December 1953 was about £1,775,000.

Gastric Ulcer Tablets

MR. R. S. RUSSELL asked the Minister of Health on March 18 the position on the use of Roter tablets in the National Health Service; and if there were any non-proprietary medicine with the same composition and curative properties. THE PARLIAMENTARY SECRETARY (Miss P. Hornsby-Smith) replied that the tablets had been classified by the Joint Committee on prescribing among preparations not proved to be of therapeutic value. Doctors were free to prescribe any medicine but they might be called upon to justify themselves. There were standard preparations with similar properties to those claimed for Rotertablets, but no other to the same formula. MR. RUSSELL asked Miss Hornsby-Smith if she was satisfied that other preparations with similar properties would have exactly the same curative effects. MISS HORNSBY-SMITH: As I am not either a doctor or a chemist, I cannot claim to be qualified to answer that question. SIR L. PLUMMER: Will Miss Hornsby-Smith ask the Postmaster-General to see that products of that kind are not advertised on commercial television?

Wholesalers and Purchase Tax

Replying to the debate on the adjournment on March 18 THE FINANCIAL SECRETARY TO THE TREASURY (Mr. John Boyd-Carpenter) said that the registration of wholesalers for purchase tax purposes was a difficult topic. The more there were registered, the greater was the cost of collection of the same amount of revenue, the larger were the administrative staffs required and the more difficult was the task of policing the Revenue. For that reason new registrations had not been granted to wholesalers unless there were special circumstances (such as substantial actual or potential export trade) to justify their existence. The matter had been complicated by the Act of 1940 extending registration to the overwhelming majority of wholesalers. That was necessary to prevent large stocks escaping tax. If that position were unchanged, virtually anybody in business in 1940 would have the advantage of registration, while new wholesalers would not. If, in fairness to new wholesalers, the pre-1940 traders were deregistered, there would be dislocation, because those traders would have to pay tax on all goods in stock. There was a clash of interests between old and new traders. The Government followed the compromise course of maintaining the registration of pre-1940 traders while things continued normally, but on some change (for example, change in structure or ownership), deregistered them. The present policy was not necessarily to withdraw registration, even when such a change occurred, if the business concerned was an old-established one with a good Revenue record, and if the change that took place did not involve a real change of control. The policy followed had the fewest disadvantages.

B.I.F. Bill

During the third reading of the British Industries Fair (Guarantees and Grants Bill) in the House of Commons on March 18 THE MINISTER OF STATE, BOARD OF TRADE (Mr. Heathcoat Amory) said that the Government could not commit itself to the provision of a new building for the Fair. It was something that all hoped would one day become a possibility. The Bill was read a first time in the House of Lords on March 19.

Paratyphoid Outbreak

THE MINISTER OF HEALTH (Mr. Iain Macleod) in a written answer to MR. D. T. LLEWELLYN on March 22 said that on March 18, 104 patients admitted to hospitals in South Wales, of whom eighty-eight were from Cardiff, had been diagnosed as suffering from paratyphoid fever.

BUSINESS CHANGES

MR. JOHN WHYTE, M.P.S., has acquired the branch business of A. Whitelaw, Eden Place, Auchtermuchty, Fife.

MR. JAMES COFFEY, M.P.S.I., 16 Market Square, Enniscorthy, is opening a pharmacy at 32 Wexford Street, Dublin, on March 26.

MR. J. B. McCAIG, M.P.S., has been allocated new premises for a pharmacy at the Inch, Edinburgh's newest housing estate.

MR. J. B. GROSSET, M.P.S., has taken over the business at 111 Leith Walk, Edinburgh, formerly conducted by Mr. W. H. Nisbet, M.P.S., who has retired.

Appointment

GOYA, LTD., Badminton Court, Amersham, Bucks, have appointed Mr. G. Willshaw (formerly representative in the Manchester and East Lancashire area), their sales manager.

MARRIAGE

EADIE—BERENS. — At St. Mary the Boltons, London, S.W.10, on March 20, Peter McGregor Eadie to Hazel Phyllis Berens.

Silver Wedding

DAVIDSON — CAMPBELL. — At Leven, on March 20, 1929, James Davidson, M.P.S., to Lily Adam Campbell, M.P.S. Present address:— 120 Townhead Road, Coatbridge, Lanarks.

DEATHS

CROWTHER.—On March 17, Mr. Edward Mortimer Crowther, D.Sc., F.R.I.C., aged fifty-six. Dr. Crowther was head of the chemistry department of Rothamsted Experimental Station from 1927 and deputy director of the station from 1950. He went to Rothamsted immediately after graduating from Leeds University in 1917, and made crop nutrition and soil fertility his main work. The successful rationing policy adopted for fertilisers during the 1939-45 war was largely the application of his work and of his unrivalled knowledge of crop nutrition. In 1951 he was president of Section M (Agriculture) of the British Association, and in 1952 and 1953 of the British Society of Soil Science and of the Fertiliser Society. He completed the jubilee memorial lectures of the Society of Chemical Industry only three days before he died. He is survived by his widow and a son.

DALRYMPLE.—The funeral of the late Mr. G. A. K. Dalrymple (see *C. & D.*, March 20, p. 290) took place on March 18 at the Landican Crematorium, Birkenhead, Ches. It was attended by a large number of Mr. Dalrymple's friends and business associates in addition to his family. Among the mourners were a party from Ayrton, Saunders & Co., Ltd., which included the chairman (Mr. B. C. Lewis), the vice-chairman (Mr. G. A. Nixon) and directors (Messrs. N. Marsh, F. Twells and D. R. Leith). Also present were Mr. A. Chapman (recently retired chairman of the company), and the former secretary of the company (Mr. W. S. Hulme), who retired some years ago. Among business associates of Mr. Dalrymple, R. Sumner & Co., Ltd., was represented by Messrs. R. Whitfield and Smith; Evans Medical Supplies, Ltd., by Mr. Bates; and the Association of British Pharmaceutical Industry by Mr. W. J. Merrick.



Left, the late Mr. G. A. K. Dalrymple (see above). Right, the late Mr. J. G. H. Huntley (next col.).

ECCLESTONE. — In hospital on March 13, Mr. George Thomas Ecclestone, F.P.S., Pharmacy House, Stansted, Essex, aged eighty-eight. Mr. Ecclestone qualified as a chemist and druggist in 1890 and passed the Pharmaceutical Chemist examination in 1891.

FECHER. — On March 13, Mr. Michael Joseph Fecher, Taplow Common Road, Burnham, Bucks, aged eighty-four. Mr. Fecher was chairman and managing director of M. J. Fecher, Ltd., manufacturers of druggist sundries, Slough, Bucks. Mr. Fecher founded the business in London sixty years ago and held the position of chairman and managing director after the incorporation of the company in 1909.

GERRISH. — On March 1, Mr. Emerson Gerrish, 12 Hills View, Braunton, Devon, and formerly 9 The Quay, Bideford, aged eighty-three. Mr. Gerrish qualified as a chemist and druggist in 1896.

HALL. — At a nursing home in Edinburgh, on March 14, Mr. George Hall, M.P.S., 51 Montpelier Park, Edinburgh, 10. Mr. Hall qualified in 1895.

HUNTER.—On March 9, Mr. William Walker Hunter, M.P.S., 11 Montague Avenue, Newcastle-on-Tyne, 3, aged sixty-four.

HUNTLEY.—In an aircraft disaster at Singapore on March 13, Mr. John Guy Henderson Huntley, aged forty-five. Mr. Huntley was the deputy head of the research division of the Metal Box Co., Ltd.

MARTIN. — Recently, Mr. Henry Arthur Martin, M.P.S., 13 Park Avenue South, Northampton, aged eighty. He was for several years secretary of the Leicester Branch of the Pharmaceutical Society. He is survived by a son and a daughter.

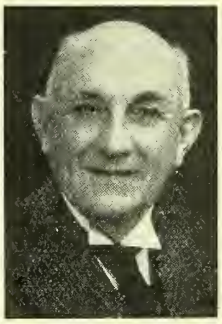
MELVILLE. — On March 11, Mr. David Gordon Melville, M.P.S., 11 Hammersmith Bridge Road, London, W.6, aged seventy-nine.

NAPIER.—On March 12, Mr. William Charles Hancock Napier, M.P.S., 145 New Road, Portsmouth, Hants. Mr. Napier qualified in 1911.

NICHOLS.—On March 13, Mr. John Aloysius Nichols, M.P.S., 2 Bright Street, Consett, co. Durham. Mr. Nichols qualified in 1932 and was a former secretary of the Durham County Branch of the Pharmaceutical Society, and manager of Pattricks (Pharmaceuticals), Ltd., Consett.

PARKINSON. — At his residence, The Medical Hall, Draperstown, co. Derry, on March 14, Mr. George Parkinson, J.P. Mr. Parkinson qualified as a pharmaceutical chemist in Northern Ireland in 1926. A native of Armagh, Mr. Parkinson was a druggist in Maghera prior to joining the Royal Army Medical Corps during the 1914-18 war. He served in the R.A.M.C. for many years and retired with the rank of regimental sergeant-major. He held a Queen Alexandra nursing medal, and was a member of the "Old Contemptibles," attending their rallies frequently. He began business in Draperstown twenty-six years ago. He was also sub-postmaster in the town and was appointed a J.P. in 1944. He is survived by his widow, two sons, who are in the business, and two daughters.

MORSON.—Suddenly at Wormley on March 23, Mr. Thomas D. Morson, F.C.S., aged seventy - three. Mr. Morson was chairman of Thomas Morson & Sons, Ltd., having assumed that office in 1940. Mr. Morson was a grandson of the founder of Thomas Morson & Sons, Ltd. (Mr. T. N. R. Morson). He studied at Haileybury and, under Sir William Ramsay, at University College, London. His researches at the Central Technical College, South Kensington, and plans for studying at a German university, were abandoned in 1901 when he had to superintend the firm's removal from Homerton to the Ponders End works, which he helped to design and equip. He was a member of the A.B.C.M. council from 1942-53, treasurer of the Association of British Pharmaceutical Industry from its foundation in 1930 until 1947, and was elected an honorary member in 1948. He had been for fifty years a member of the Society of Chemical Industry. He was on the executive committee of the Association of Chemical and Allied Employers from 1941-53, and on the executive committee of the Machinery Users' Association for the past twenty-five years. Mr. Morson is survived by his widow and two daughters.



REES.—On February 28, Mr. William Bowen Rees, M.P.S., Chiltern House, New Road, Penn, High Wycombe, Bucks, aged sixty-seven.

RUTHERFORD.—On February 28, Mr. Arthur Tempest Rutherford, M.P.S., 2 Sidney Crescent, Newbiggin-by-the-Sea, Northumberland, aged sixty-seven.

SUMMERS. — On March 4, Mr. Stanley Summers, F.P.S., Ripon Lodge, Grove Park, Denmark Hill, London, S.E.5, and formerly 15 Barrow Road, Streatham Common, London, S.W.16, aged eighty-four. Mr. Summers qualified as a chemist and druggist in 1891 and passed the Pharmaceutical Chemist examination in 1892.

WALMSLEY.—On March 15, Mrs. Hannah Eliza Walmsley, wife of Mr. James Chadwick Walmsley, M.P.S., 58 Sandringham Road, Intake, Doncaster, Yorks.

WESTLAKE. — On February 26, Miss Ethel Maude Westlake, M.P.S., Edwina, Wyvern Avenue, Tamworth Road, Long Eaton, Derbys. Miss Westlake qualified in 1902.

WILLIAMS.—On March 3, at the Brendin Stuart Nursing Home, 35 Goodwins Road, King's Lynn, Norfolk, Mr. Nathaniel Williams, M.P.S., formerly c/o T. J. Broomhead, 10 Avenue Road, King's Lynn, aged ninety-three.

PERSONALITIES

MR. LEONARD EDWARDS, M.P.S., has been nominated sheriff of Chester.

MR. A. E. SKAN, Birmingham, has been elected chairman of the British Plastics Federation.

MR. RAYMOND WHITTAKER, F.P.S., has been appointed lecturer in the department of pharmacy of the Liverpool College of Technology.

DR. G. M. WILSON has been appointed to the Chair of Pharmacology and Therapeutics at Sheffield University.

MR. J. B. GROSSET, who has served as secretary of the Edinburgh Pharmaceutical Committee for four years, has resigned and his place has been taken by Mr. Ian M. Lawrence.

MR. R. C. HANNANT, M.P.S., Gorleston-on-Sea, Norfolk, who is Area Commissioner, St. John Ambulance Brigade, has been promoted from serving brother to officer brother in the Order of St. John.

MESSRS. DONALD W. P. BOYD (managing director, Boileau & Boyd, Ltd.) and S. T. McAULEY (managing director, Irish Pharmaceuticals, Ltd.) have been elected to the new council of the Federation of Irish Manufacturers.

DEPUTY chief pharmacist at Central Middlesex Hospital is Miss K. Knight, F.P.S., and not as previously stated in these columns. Miss Knight has been with the Hospital for several years and was previously in retail pharmacy after an apprenticeship in Leeds.



Mr. GWILYM H. HUGHES, M.P.S., has accepted the invitation of the Colwyn Bay borough council to be mayor of Colwyn Bay for the year 1954-55. Mr. Hughes has been chairman of the council's finance committee since 1952.

MR. J. O. JOHNSTONE, M.P.S. (a director of Reynolds & Johnstone, Ltd., chemists, Wallingford, Berks) has been elected mayor of Wallingford. Mr. Johnstone's father was a member of the first committee of the Reading Branch of the Pharmaceutical Society and was mayor of Wallingford for five successive years.

MRS. HENRIETTA S. BROCKLEHURST, M.P.S., wife of Mr. E. A. Brocklehurst (vice-president of the Pharmaceutical Society) has been appointed to the Leeds Regional Hospital Board. Mrs. Brocklehurst was appointed an East Riding J.P. in 1949 and has been an active social worker. She is a member of No. 5 Hospital Management Committee, Hull B Group, and was president of the Hull Chemists' Association in 1946.

MR. J. M. LANG, M.P.S., Pakefield, Lowestoft, who has accepted the invitation of the town council to be the next mayor of Lowestoft, is taking office in May. After education at Lowestoft Grammar School, Mr. Lang studied pharmacy at Chelsea Polytechnic. In 1935 he started in business as a pharmacist in Pakefield, and is on the Pharmaceutical Committee of the East Suffolk Executive Council. Mr. Lang was co-opted to the town council in 1940 and was returned in 1945 at the first elections after the war. He was elected an alderman in 1948, and is chairman of the council's works committee.

MR. L. ANDERSON, who is retiring from the board of Boots Pure Drug Co., Ltd., on March 31 (see p. 310), joined the company in 1918 after working during the war on explosives and acids manufacture. In 1927 he was given full charge of fine chemical production and has been responsible for an expansion by the company in that field. During the 1939-45 war he planned one of the first factories for the production of penicillin and has since developed the antibiotic unit until it has become one of the most efficient plants in the country.



Mr. L. Anderson

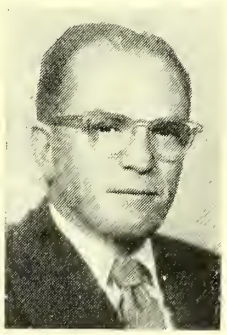


Mr. S. Harker-Smith

MR. S. HARKER-SMITH, who has been appointed to the board from April 1, joined the company from Cambridge University in 1921 and has had a wide experience in all sections of the business. In 1945 he was made general sales manager. Mr. Harker-Smith has been a director of Boots Cash Chemists (Northern), Ltd., since 1948.

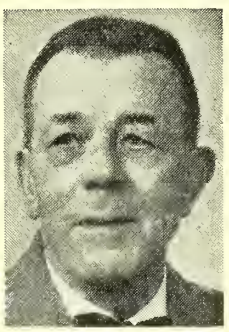
DR. B. P. DUDDING (vice-chairman of the Advisory Scientific Panel of the General Electric Co. Ltd.'s research laboratories) has been awarded the *Ordine al Merito della Repubblica Italiana* by the Italian Government in recognition of his services to the Italian glass industry. Dr. Dudding was elected president of the Society of Glass Technology in 1934 and became president of the second congress on glass held in England in 1936. The University of Sheffield conferred on him the honorary degree of Doctor of Philosophy in 1939. He was elected a Fellow of the Institute of Physics in 1921, a Fellow of the Royal Statistical Society in 1933, and a founder Fellow of the Society of Glass Technology in 1936. He became secretary of the Institute of Physics in 1946 and secretary of the International Commission on Glass in 1950. He was president of the International Commission on Glass, July 1953.

MR. LEON LEVI (secretary and assistant general manager, Max Factor & Co., Hollywood, U.S.A.) left New York on March 20 for London to spend several weeks conferring with Mr. A. J. Klein (managing director, Max Factor Hollywood & London (Sales), Ltd., London). After visiting the company's factory at Bournemouth, Mr. Levi will go on to Ireland and the Continent to discuss advertising, sales and merchandising plans.



A RETIREMENT PRESENTATION

TO commemorate his retirement after fifty years' service with MacAndrews & Forbes, Ltd., London, Mr. Bernard T. Cadoux (formerly principal director of the company and a director of MacAndrews & Forbes Co., Inc., New York, U.S.A.) was on March 12 presented with an inscribed silver cigarette box and table lighter by Mr. R. S. Harrison (a director of the London company) on behalf of Mr. Cadoux's business associates and friends. He started as a junior clerk when the company's London offices were opened in 1904 by Mr. T. S. (now Lord) Catto. Shortly afterwards Mr. Cadoux went out to the Near East and was employed in various branches of the company there for a number of years. During the 1914-18 war he served with distinction in the British Army and afterwards worked for a time in the New York headquarters of the company. Later he again went to the Near East, where he remained until 1922 when, as a result of the Turko-Greek war, the company's premises in Smyrna (Izmir) were destroyed. A reorganisation in administration took place about that time and London was made headquarters of the company's European and Middle East activities with Mr. Cadoux as accountant and later deputy to the foreign managing director. In 1951 he himself became foreign managing director and was appointed to the board of the New York company. Mr. Cadoux's retirement about five months ago on account of ill-health brought to an end the family's century-old connection with the company. His elder brother was with him in the London office at the time of its opening, but died fairly early in life. His father became the first manager of the Smyrna branch in 1863.



TRADE NOTES

Penicillin Price Reductions.—Manufacturers of penicillin and penicillin preparations announce further reductions in price.

Ten-day Supply.—In addition to the existing three-week course, a ten-day-supply pack of Angelin is being issued by the makers, Genatosan, Ltd., Loughborough, Leics.

Tetracycline.—Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent, point out that their speciality Tetracyn is being included under the "other names" in the supplementary list of approved names recently approved by the British Pharmacopœia Commission (*C. & D.*, February 20, p. 177).

Chemists' Exhibition in 1955.—The British & Colonial Druggist, Ltd., 194 Bishopsgate, London, E.C.2, organisers of the Chemists' Exhibition, have decided to postpone the holding of the Chemists' Exhibition until 1955, when the International Pharmaceutical Congress is due to be held in this country.

Stocktaking and Extension. — J. H. Haywood, Ltd., 11 Warser Gate, Nottingham, state that their premises are being closed from Friday evening, April 2, until Thursday morning, April 7, for the double purpose of stocktaking and opening additional and larger premises adjoining the main building. The company's address and telephone numbers are unchanged, and an emergency service is being maintained throughout the change-over period.

An Additional Strength.—The Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, have made available their Distivit B12 brand injection of vitamin B_{12}, B.P., in a 1-mil ampoule containing 1,000 microgm. (the dose for the treatment of trigeminal neuralgia and related conditions). The pack is a box of five ampoules. Distivit B12 is available from Burroughs Wellcome & Co., Evans Medical Supplies, Ltd., and Imperial Chemical (Pharmaceuticals), Ltd.

Restyled.—Advance Industries, Ltd., Slough, Bucks, a subsidiary of Nicholas



Products Laboratories, Ltd., and one of the Aspro group of companies, have taken over the marketing of Dip long-life starch and Dispel air freshener and have restyled both products as illustrated.

Reintroduced. — Sparklets, Ltd., Queen Street, Tottenham, London, N.17, are reintroducing to the home market on April 1 their Sparklets standard syphon (the glass model latticed with wire braid). Since the beginning of the 1939-45 war, the model has been kept strictly for export, but for some time the company has been building up stocks for their release once more in this country, and it is hoped that the present accumulation will permit prompt delivery to all purchasers.

"Suction-cup" Swimming Cap.—The Trident swimming cap, described as "new and unique" by the manufacturers, W. W. Haffenden, Ltd., Richborough rubber works, Sandwich, Kent, incorporates a double row of miniature "suction caps" round the interior rim, making the cap "positively watertight." Though light in weight, the cap is durable. Each cap is packed in a five-colour display carton.



Distribution in the United Kingdom.—British Schering, Ltd., 229 Kensington High Street, London, W.8, are now acting as sole distributors in the United Kingdom for the pharmaceutical specialities of Schering, A.G., Berlin, Germany. The following specialities are immediately available:—Praenitron triethanolamine trinitrate, for the treatment of angina pectoris and angiospastic conditions (tube of fifty 1-mgm. tablets): Primoteston depôt, a concentrated depôt preparation of testosterone œnanthate for intramuscular injection. The product is issued in 50-mgm. and 100-mgm. strengths with esters of œnanthylic and propionic acids. The 250-mgm. strength contains exclusively testosterone œnanthate; Biligraffin, a contrast medium for intravenous cholecystography (20-c.c. ampoule and box of five 20-c.c. ampoules).

Father's Day. — The Father's Day Association, Ltd., 16 Mumford Court, Lawrence Lane, London, E.C.2, announce that Father's day this year is



on June 19. Two sizes of showcard, 8½ x 13½ in. and 6 x 9 in., and a gummed window sticker (same size as larger showcard) are being produced. The showcards are in red and turquoise, the sticker in red.

"Revitalised."—Cuxson, Gerrard & Co., Ltd., Fountain Lane, Oldbury, Birmingham, have decided to "revitalise" their Healo skin ointment, of which they sold many hundred grosses yearly before the 1939-45 war, but which, during the war years, owing to difficulty in obtaining tins and raw materials, was in short supply. A new "dispenser," holding two of the yellow and black tins, is being supplied with every doz. tins. Healo is available in two sizes.



DISPLAY OUTERS: Left, carton of twelve tubes of Gibbs brushless shaving cream. Right, "dispenser" for Healo skin ointment.

Bonus Offers. — BURROUGHS WELLCOME & Co., 183 Euston Road, London, N.W.1, announce that a bonus of thirteen to the doz. Tineafax ointment or powder is being given from April 1 until July 31 on orders in Great Britain and Northern Ireland for three doz.; the bonus is also available to mixed orders of ointment and powder provided that only unbroken dozens are ordered. In return for a display, F. W. HAMPSHIRE & Co., LTD., Sunnydale, Derby, are charging 3 doz. Dor deodorant cream as 2¼ doz.—SHARP & DOHME, LTD., Hoddesdon, Herts, are offering thirty-six tubes or more of Tyrozets at a special reduced rate per doz. for direct purchase.

The Van Got Through. — In the severe weather of a week or two back, the Sheffield route delivery van of



[Sheffield Star Photograph

Ayrton, Saunders & Co., Ltd., failed to keep its daily time schedule across the Pennines for only the second time in four years. A blizzard that lasted for nearly eight hours held the van up at Woodhead, 2,000 ft. up on the borders of Cheshire and Yorkshire. Eventually the snowplough (left of picture) arrived to clear a path. The delivery was late, but the van got through with the goods!

NEW PRODUCTS AND PACKS

Antidermatitis Cream. — Biorex Laboratories, Ltd., 51 Exmouth Street, London, E.C.1, announce the introduction of a new speciality, Kendale cream No. 5, for the treatment of vesicular dermatitis. The product is available in containers of two sizes, the larger—for dispensing—a 1-lb. jar.

Latest from France.—As sole distributors in England for the perfumes of Jacques Fath, Paris, France, B.G.P.



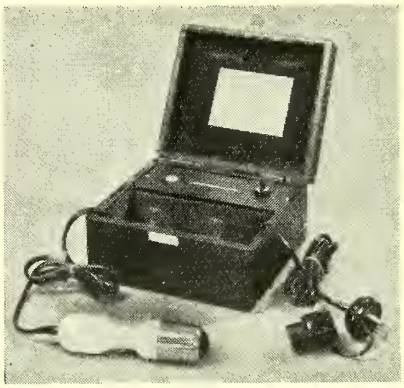
(Cosmetics), Ltd., 37 Chesham Place, London, S.W.1, have introduced the latest perfume "Fath de Fath."

A Trio Completed.—D. & W. Gibbs, Ltd., Hesketh House, Portman Square, London, W.1, claim a "hat trick" with the introduction of their brushless shaving-cream. Their re-entry into the field of shaving preparations has already produced Gibbs Easy shaving stick and Gibbs lather shaving cream. The new product is being heavily advertised. To launch it, Messrs. Gibbs are offering a special display bonus of two free tubes with every doz. purchased.

A New Lipstick. — Coty (England), Ltd., 3 Stratford Place, London, W.1, have brought in a new lipstick, Coty 212. The lipstick is "dramatised" in a cherry/gold candy-striped case, and is available in five new shades (spun gold, forest fire, rose satin, fresh pink and gay fuchsia) as well as five previous shades (red ribbon, vif, gitane, dahlia and coral pink). The colour of the 212 lipstick has been intensified to harmonise with all fashion shades "from white lemon to redder than blue cyclamen." A point for the stockist is that the 212 lipstick lasts for three years without cracking in its case or becoming rancid.

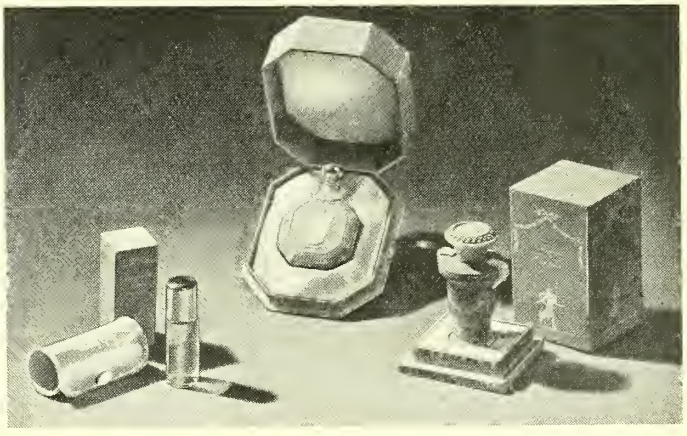
Treatment of Otitis Externa.—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the introduction of Aerosporin brand otic solution for the treatment of otitis externa due to *Ps. pyocyanea*. Against that and other gram-negative organisms polymyxin B sulphate, principal ingredient of the product, is specific. Aerosporin otic solution is markedly hygroscopic, and has a low surface tension, factors that provide optimal conditions for an adequate concentration of antibiotic at the site of infection. The product is issued in bottles of 10 c.c. with dropper; each c.c. contains 10,000 units of the sulphate.

Electric Home Masseur.—Designed to provide simultaneous massage and infra-red warmth, the Thermasseur electric home masseur has been pro-



duced by E. Walker & Co. (Electrical Engineers), Ltd., Phoenix Works, The Hyde, London, N.W.9. The Thermasseur consists of a mobile black steel sphere housed in a plastic handle, weighing only 6 oz. The standard model operates on A.C. mains 200/250 volts but, by reason of a transformer, uses only about 6 volts at 12 watts.

Wedgwood Perfume Series.—Specially created for the Wedgwood blue and white jasper series illustrated, the Dorothy Gray Wedgwood perfume is described as "a fresh classic scent with enduring qualities." It has subtle undertones of flowers and spices. The scent bottle shown was made for Dorothy Gray by Josiah Wedgwood & Sons, Ltd., by processes scarcely changed since the eighteenth century. The cap is of silver, and the white embossed figures, hand-applied by craftsmen, are floral girls from the "Dancing Hours" plaque designed by John Flaxman in 1775. The "vase" perfume has a cap topped with an original Wedgwood cameo, while a new process of firing glass gives the vase-shaped bottle the colour and matt texture of jasper ware. The Wedgwood "purse" perfume (left) in gilt-topped phial, has a pale blue silk sheath and small carton repeating the Wedgwood theme.



Miniature Feeders.—Of novel design, the GripTiny miniature feeders of Lewis Woolf, Ltd., 144 Oakfield Road, Selly Oak, Birmingham, 29, are fitted with a new style of Feedteat having a patented internal gripping bead and an extra large cushion bulb to protect the baby's lips. The assembly is claimed lighter in weight than any similar article on sale hitherto. The company's rubber soothers No. 727, which are fitted with a large, extra-thick rubber shield and a rubber ring of exceptional diameter and thickness, are claimed to make this high-transparency pacifier a product that fills a previously unsatisfied demand.

Erythromycin Preparations.—Abbott Laboratories, Ltd., 3 Wadsworth Road, Perivale, Greenford, Middlesex, announce that their speciality Erythrocin (erythromycin) is now available for administration to children in the form of a palatable oral suspension, which retains its potency for at least eighteen months. Pædiatric Erythrocin suspension is available in a bottle of 2 fl. oz. (60 c.c.), each 5-c.c. teaspoonful representing 100 mgm. of Erythrocin.—Eli Lilly & Co., Ltd., Basingstoke, Hants, announce the addition to their Ilotycin brand erythromycin preparations from April 1 of Ilotycin pædiatric suspension, presented as dry flavoured granules to which water is added before dispensing to produce a total volume of 60 c.c. Each 5-c.c. teaspoonful of the dispensed suspension contains 100 mgm. Ilotycin. Messrs. Lilly have also made available a 100-tablet pack of Ilotycin tablets in addition to the former 24-tablet pack.

A New Strength.—Menley & James, Ltd., Coldharbour Lane, London, S.E.5, have introduced Eskacillin 200, a new high-strength member of their Eskacillin range of palatable liquid oral penicillins. Each standard medical teaspoonful of Eskacillin 200 contains 200,000 international units of procaine penicillin. It is available in bottle of 2 fl. oz. The dosage for children up to eight years is one teaspoonful three or four times a day, and for older children and adults the amount is two to three teaspoonfuls three or four times a day.

BRANCH AND ASSOCIATION MEETINGS

PLYMOUTH

Cortisone Lecture

AN address on cortisone, followed by a film "Drugs in the Making," was given by Mr. A. R. G. Chamings (Ciba Laboratories. Ltd.) at a meeting of the Plymouth Branch of the Pharmaceutical Society recently.

GLASGOW

N.H.S. Matters Discussed

A MEETING of the Association of Glasgow Pharmacists held in Glasgow recently, Mr. K. Scatchard (president) in the chair, took the form of a discussion of business matters and National Health Service problems, and as far as possible the clarification of doubts and difficulties which contractors experienced in their dealings with Government departments.

EXETER

Only Multiples can Afford

APART from Oxford Street, London, Exeter High Street commanded the highest price per foot frontage in the United Kingdom, said the city's chief planning officer to members of the Exeter Branch of the Pharmaceutical Society on "National and Local Town Planning" recently. That fact, he said, accounted for the presence of so many large multiples and the absence of the private trader. Chemists' shops operated on a comparatively low rate of profit and could not possibly be successful in such a highly-valued and heavily-rated area.

HOUNSLOW

Cortisone in Allergy

IN the acute phase of allergic complaints ACTH and cortisone produced dramatically good results in most cases, but except in low dosage their continued use was not recommended, said DR. A. W. FRANKLAND (Wright-Fleming Institute of Microbiology, St. Mary's Hospital Medical School, London), in a lecture on "Some Aspects of the Treatment of Allergic Complaints" at the February meeting of the Hounslow Branch of the Pharmaceutical Society. Dr. Frankland said that allergy had been defined as an altered capacity to react to a particular sensitising agent, and the term included all sensitising reactions such as eczema, hayfever, asthma, etc., though not all such cases were allergic in origin. There was often a family history of allergic complaints. Dr. Frankland had found 200 identical allergic twins in England, but only about one-third had identical allergies. He continued by briefly describing the various symptoms produced in allergic patients. Signs of allergy often appeared in early childhood, and children should be allowed their food fads in case those had an allergic basis. Dr. Frankland enumerated the causes of allergic complaints and said that many previously unsuspected causes of allergy such as dry rot were being discovered. Many people were sensitive to drugs, and such popular ones as aspirin and phenolphthalein were among the commonest causes of sensitivity. The lecture was illustrated by lantern slides and the film "Hay Fever," made by the photographic department of St. Mary's Hospital.

READING

British Veterinary Codex

ADDRESSING a recent meeting of the Reading Branch of the Pharmaceutical Society at which Berkshire veterinary surgeons were present, DR. K. R. CAPPER (editor, scientific publications department of the Society) described how the British Veterinary Codex was compiled and said that, though several books published since 1850 gave similar information on the properties of drugs used in the treatment of animals, and certain foreign pharmacopœias also gave standards for a small number of veterinary drugs, the British Veterinary Codex was the first book to be issued by a public body recommending standards for all veterinary drugs and biological products considered to be of therapeutic value. In the discussion which followed, Dr. Capper said he thought the book would be of great value to teachers of veterinary medicine. The book showed up gaps in pharmaceutical, chemical and clinical knowledge of veterinary drugs and should stimulate research to fill those gaps. MR. KIRKWOOD, M.R.C.V.S., proposing a vote of thanks to Dr. Capper, said that it was difficult to pay adequate tribute to the Pharmaceutical Society for undertaking such a task. The doses in all existing text-books available to veterinary practitioners were very much out-of-date. The new Codex ensured that students' knowledge of drugs would be up-to-date. The veterinary student could now devote more of his time to diagnosis of animal ailments, secure in the knowledge that the preparation of animal medicaments was safe in the hands of qualified chemists.

ROMFORD

Opportunities in Canada

ADDRESSING the February meeting of the Romford Branch of the Pharmaceutical Society on "Some Business Aspects of Pharmacy on both sides of the Atlantic," MR. R. H. KEMP (assistant secretary, National Pharmaceutical Union) suggested that Canada presented wonderful opportunities for young pharmacists who were not afraid of hard work; he advised, however, that jobs should be fixed before going abroad. During his visit to America he had detected a movement towards making pharmacy more professional. He commented on the number of drug stores (almost one in every street block) relying on large turnover and long hours—sometimes up to thirteen a day, though in Canada the law restricted the individual's working hours to eight a day. Mr. Kemp described the National Drug Industries of Canada as a combination of manufacturer, wholesaler and N.P.U. co-operatively owned by pharmacy. Its corresponding body in the United States was the National Association of Retail Druggists. He advised pharmacists in Britain to encourage the personal side of retail business saying that it was not to the good of the profession that they should remain "backroom boys." Replying to questions, Mr. Kemp estimated that the number of prescriptions per pharmacy was lower in Canada than in Britain. The standard of packaging dispensed medicines, however, was higher. Both salaries and the cost of living were higher and, with allowances, a pharmacist was at about the same social level as in Britain.

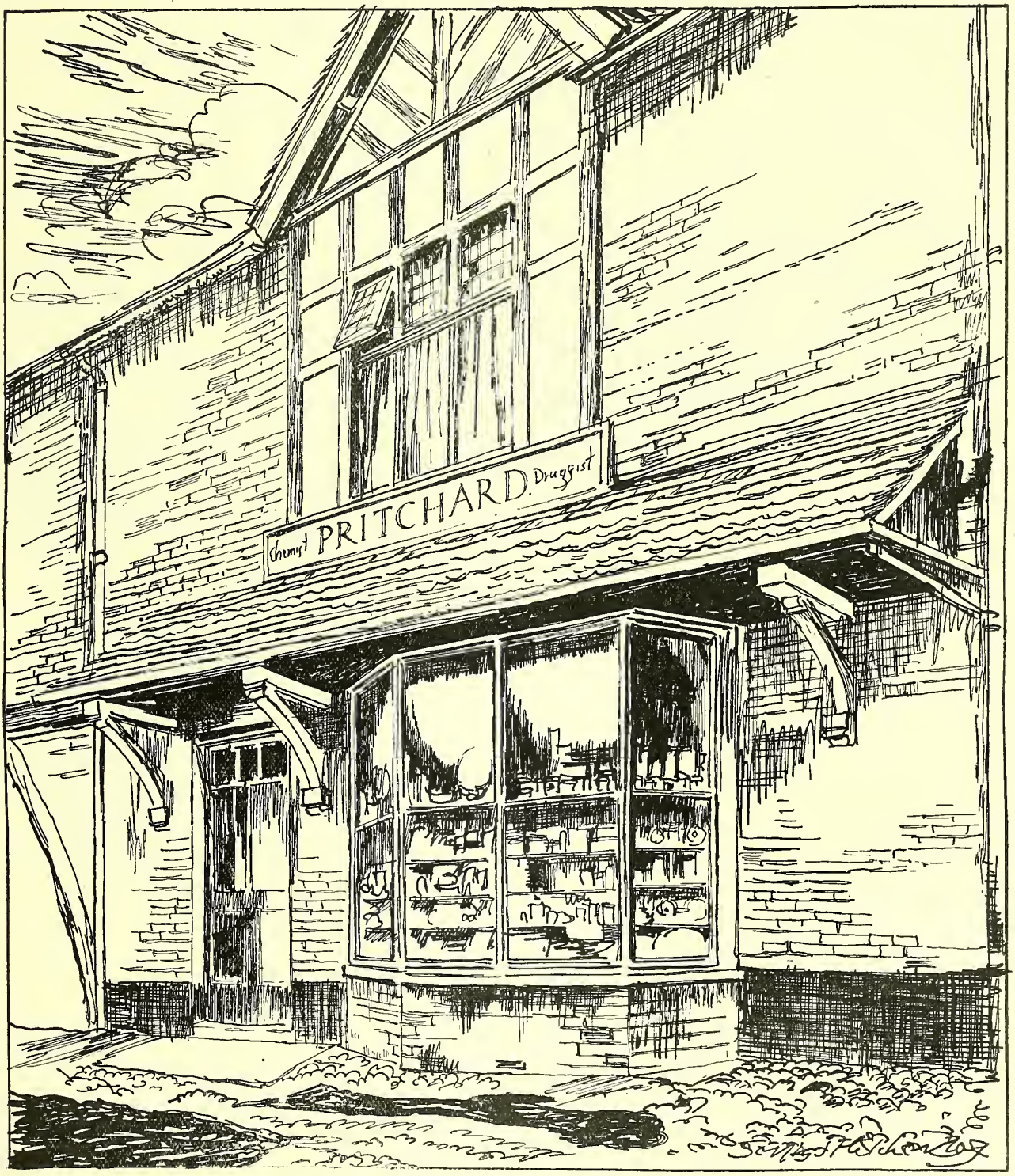
DARTFORD

Talk on Prescription Pricing

"WORK in a Pricing Bureau" was the subject of an address given to members of the Dartford Branch of the Pharmaceutical Society by MISS P. M. GREEN (superintendent of the Leytonstone bureau) recently. During the first few days of each month, said Miss Green, the bureau received from chemists about 1,000 registered parcels, equivalent to more than 1,000,000 prescriptions. They were carefully unpacked and docketed, and the bundles counted to give a rough check on the total number of prescriptions stated to be in each parcel. Any gross errors were noted and the chemist informed. The prescriptions in the S bundles were counted and a selection prepared from the A bundles for pricing. The parcels were then filed until required by the pricing room. It was very important that careful filing should always be maintained, as the bureau might hold a year's issue of prescriptions, any of which might be required for reference. Girls from the age of fifteen with an aptitude for figures were given from three to six months' training. In the pricing room, the task of pricing was performed by junior and general pricers. They were provided with charts of drug tariff prices, a ready reckoner, a drug trade price list, and a list of prices of three to four thousand proprietary medicines. Queries and problems were submitted to senior pricers. Bundles of priced prescriptions were sent to the totalling room where machines quickly determined all the details required, including the total values of the prescriptions dispensed. Problems that could not be solved in the pricing room were sent to the query room, but that caused delay in pricing and payment. In most cases endorsement of prices by the chemist was unnecessary and undesirable. It was sometimes useful to state the size of pack used for dispensing proprietaries, and where different prices were charged for preparations such as oral penicillin tablets, vaccines and sera, the name of the manufacturer should be stated. Ambiguous or incomplete prescriptions should be corrected or completed by the doctor, who should also emphasise unusually large quantities prescribed. Details for elastic hosiery must be stated by the prescriber. In reply to questions Miss Green said that no dispensing fee was allowed for dissolving penicillin to complete proprietary oral

mixtures of that drug, and if an extra dropper was required for eye or nasal drops that should be ordered by the doctor. Expenses incurred in obtaining an urgent drug were allowed, but the cost of telephone calls to doctors was not. If a doctor persisted in issuing undecipherable prescriptions he was reported to the Executive Council.

PHARMACIES OF BRITAIN—22



THE PHARMACY AT PRESTBURY

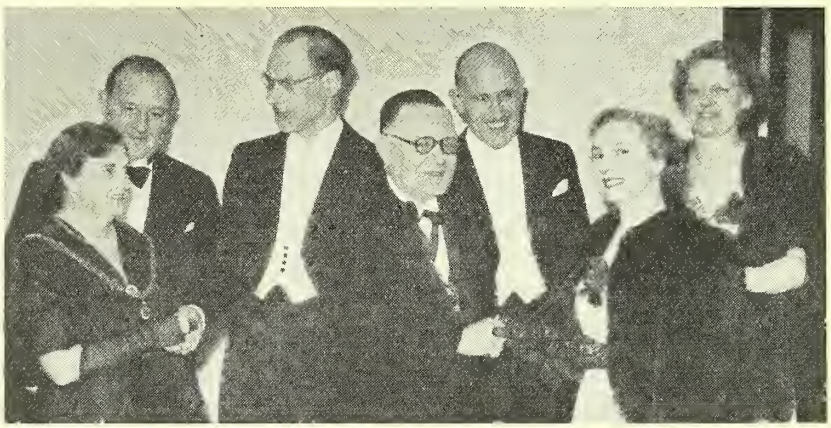
Prestbury, one of the most picturesque villages in Cheshire, has a village street of Georgian and half-timbered buildings. In the black-and-white style characteristic of the county, the pharmacy of Pritchard has a charming little bow window and overhanging canopy jutting on to the cobbled village street.

LOCAL DINNERS AND DANCES

CAMBRIDGE

Changing Conditions

SPEAKING at the annual dinner of the Cambridge and Huntingdon Branch of the Pharmaceutical Society in Cambridge on March 4, MR. Q. G. DIBBS (chairman of the Branch), proposing the toast "The Pharmaceutical Society," said that the changing face of pharmacy was breath-taking. Modern therapeutics relied more and more on synthetic chemicals and antibiotics and much of the traditional work of the pharmaceutical chemist had gone for ever. Not a single sugar-coated pill remained. It was not always easy for those who qualified before the 1939-45 war to keep pace. The need for a sound basis of knowledge and experience was more important than ever. The new educational policy of the Society recognised that and the Council was to be congratulated on the progress which had been made. Mr. E. A. Brocklehurst (vice-president of the Society) responded.



DINERS AT MANSFIELD: Guests being welcomed on arrival at the annual dinner and dance of the Mansfield Branch of the Pharmaceutical Society, March 3. Left to right, the mayoress of Mansfield (Mrs. Goodhand); Dr. J. S. Drummond (medical officer of health for the borough); Mr. P. D. J. Spaanderman (chairman of the Branch); the mayor of Mansfield (Councillor Goodhand); Mr. H. S. Giles (vice-chairman, Nottingham Branch); Mrs. P. D. J. Spaanderman; and Mrs. H. S. Giles.

MANCHESTER

Nomenclature by Code?

PROPOSING the toast "The Guild of Public Pharmacists" at the annual dinner and dance of the Manchester Branch of the Guild recently, MR. F. S. STANCLIFFE (chairman of the Salford Hospital Management Committee) suggested that there was no future for Latin in pharmacy and that nomenclature could be simplified by giving drugs and prepared medicines code letters and numbers like motor cars. He felt that much of the dissatisfaction in the Health Service was due to individual management committees, hospitals and staff thinking each of their own interests, and urged that the answer was to be found not in terms of £ s. d. but in personal satisfaction and happiness. He paid tribute to MR. A. M. MEES (president of the Guild of Public Pharmacists), who responded. The toast "Our Guests" was proposed by the chairman (Miss K. Applewhite), and the response was made by Mrs. A. Graham-Bryce (chairman of the Manchester Branch of the Association of Hospital Management Committees). Referring to the shortage of hospital pharmacists, MRS. GRAHAM BRYCE mentioned that other branches of the Health Service were also short of recruits and urged pharmacists to plan for the future with the expectation that the shortage would continue.



ULSTER ASSOCIATES' DANCE: Committee members, guests and friends at the annual dance of the Associates' Section, Ulster Chemists' Association, held in Belfast on February 25. The guests included Mr. W. H. Boyd (president, Pharmaceutical Society of Northern Ireland) and Mrs. Boyd; Mr. H. G. Campbell (president, U.C.A.) and Mrs. Campbell; Mr. B. R. Smith (secretary, Irish Drug Association) and Mrs. Smith; Mr. J. Kerr (a past-chairman of the Section) and Mrs. Kerr; and Miss A. E. Strachan (secretary, U.C.A.). For report of the dinner see *C. & D.*, March 13, p. 252.

ABERDEEN

Eminent Guests

SEVERAL well-known pharmaceutical personalities were among about 130 guests at the annual dinner and dance of the Aberdeen Pharmaceutical Association recently. They were welcomed by Mr. Walter C. D. Bain (president of the Association). The principal guest was PROFESSOR A. D. MACDONALD (a member of the Pharmaceutical Society's Council) who proposed the toast of the Association, MR. BAIN replying. The other guests included Professor Sir David Campbell (Chairman of the General Medical Council), Mr. S. Hughan (chairman of the Pharmaceutical Society's Scottish Department Executive) and Mr. C. C. Green (assistant secretary of the Chemists Federation). Also present were Messrs. W. T. Elder and C. W. Macfarlane (members of the Society's Council), A. A. Meldrum (a past-president of the Pharmaceutical Society), M. S. Maconochie and W. A. Park (members of the Scottish Department Executive).



AT ABERDEEN BRANCH DINNER: Left to right, Mr. and Mrs. W. C. D. Bain, Professor A. D. Macdonald, Lady Campbell, and Professor Sir David Campbell.

CORNWALL

Co-operation with Police

REFERENCE to the close co-operation between pharmacists and the police force was made at the annual dinner-dance of the Cornish Branch of the Pharmaceutical Society in St. Austell recently. MAJOR E. HARE (chief constable of Cornwall), proposing "The Pharmaceutical Society of Great Britain," welcomed to Cornwall Mr. T. Heseltine (president of the Society). Major Hare said that the police force met with every co-operation from chemists in Cornwall. He could remember only one occasion when a broadcast had to be put out because unfortunately somebody had made a mistake in a prescription. That was a most satisfying record for pharmacists and the public. Responding, Mr. Heseltine said that the work of the Cornish Branch was greatly appreciated at headquarters.

GLASGOW

Duties of an M.O.H.

AT the annual dinner-dance of the Association of Glasgow Pharmacists recently, DR. STUART LAIDLAW (medical officer of health for Glasgow) proposed the toast of the "Association" and spoke about the work of his department in the city. MR. K. SCATCHARD (president of the Association) welcomed the guests and members. Among those present were Messrs. W. T. Wilson (vice-chairman of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society) and J. McKim (president of the Renfrewshire Association of Pharmacists). MR. H. KERRIGAN (vice-president of the Association) proposed the toast of "The Guests" and MR. MCKIM replied.



PORTSMOUTH ANNUAL FESTIVAL: Photographed with the embossed plaque presented at the annual ladies festival of the Portsmouth Chemists' Association are, left to right, Messrs. J. C. Bloomfield (secretary), M. A. Guernier (president), A. C. West (chief constable of Portsmouth), A. L. Harris (treasurer), N. L. Banks (immediate past-president) and R. J. Berry (vice-president).



STUDENTS' DINNER-DANCE: Group at the annual dinner-dance of the Sunderland Branch, British Pharmaceutical Students' Association recently. Left to right, Mr. J. C. Penman (branch treasurer), who acted as toastmaster; Mr. F. H. Oliver (branch president) and Mrs. Oliver; Mr. W. M. Darling (chairman); Mr. P. D. McCree; Miss A. B. Ramshaw (branch secretary), Mr. D. Coupe (vice-chairman) and Miss R. Ingham. The mayor of Sunderland replied to the toast "Our Guests," proposed by Mr. Darling.

PORTSMOUTH

President's Plaque Presented

AT the second annual ladies' festival of the Portsmouth Chemists' Association held in Southsea recently, a polished teak presidential plaque was presented to the Association by MR. N. L. BANKS (immediate past-president). MR. BANKS mentioned that the presentation was to commemorate the first ladies' festival, which had proved so successful that the function had become an annual event. The plaque is embossed and enamelled with the Association crest, and the names of past-presidents from the foundation of the Association in 1909 are embossed in gilt. It is intended that the plaque shall be displayed at all future social functions and business meetings. MR. M. A. GUERNIER (president of the Association), accepting the gift on behalf of the Association, thanked Mr. Banks for his generosity. The function took the form of a dinner and dance, and THE PRESIDENT welcomed the official guest, Mr. A. C. West (chief constable of Portsmouth). MR. WEST, proposing the toast "The Ladies," paid tribute to the work performed by the chemists in the city's welfare. He said that many citizens would like to have the opportunity of saying "thank you," and he was certain that members of the medical profession would join him in the tribute. Decorating the top table were four antique mortars, part of the collection of Mr. J. C. Bloomfield (secretary of the Association), the earliest dating from 1655. At the close of the dinner, THE PRESIDENT announced that he had received a cheque from the treasurer for £90, being the proceeds from the collecting box scheme, and that that was being forwarded to the Society's charities, two-thirds to the Benevolent Fund and one-third to the Widows' and Orphans' Fund.

EXETER

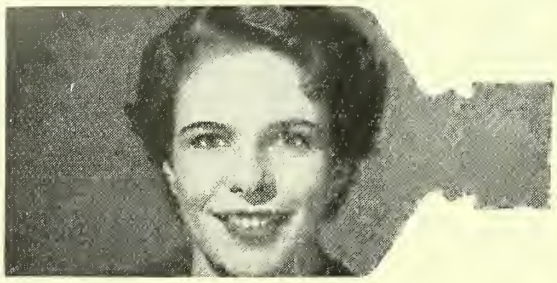
Tribute to City's Pharmacists

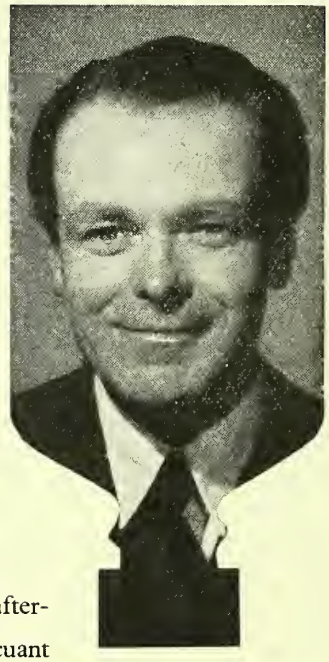
PROPOSING the toast of the Pharmaceutical Society at the annual dinner and dance of the Exeter Branch of the Society recently, DR. E. D. IRVINE (medical officer of health for Exeter) said that he was responsible for the sampling of drugs and preparations sold by pharmaceutical chemists and he was impressed by the high quality of the articles supplied, which was indicated by the absence of complaints against pharmacies in the city area. He was staggered to find that there were now 25,000 pharmaceutical chemists in the United Kingdom, who in pharmacies and hospitals dispensed drugs costing the Health Service approximately £42,000,000 a year. Quoting St. Paul, who said in one of his epistles "Now it is required of the dispenser that he be found faithful," he said that his fellow-guest, Professor Berry (dean of the school of pharmacy and professor of pharmaceutics, London University), by forsaking the commercial side of pharmacy and the financial rewards that a man of such acknowledged ability would have commanded and by devoting his life to the education of generations of pharmaceutical students, had indubitably earned a prominent place in the ranks of the "faithful." PROFESSOR BERRY, responding, said that research had now produced a veritable medical revolution with a continually rising flood of new drugs.



MANCHESTER GOLFERS AT DINNER: Scene at the annual dinner of the Manchester Chemists' Golfing Society held recently.







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The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Films for Pharmacists

As Branch secretaries are well aware, the "film evening" is frequently the best attended of the session. Several of the manufacturing houses have shown themselves aware of the advantages of sending a speaker when their films are shown, and the double attraction of a film and lecturer is always an event. Pharmacists have for years welcomed such films as a means of instruction, but they are shown almost entirely at Branch meetings and to student associations and are seldom seen in the classroom. It would be pretentious to describe these films as "post-graduate teaching": they are thinly disguised entertainment. Yet they fill a real need. Like other students who have to pass a qualifying examination, the pharmaceutical student has much to learn in a short time, and the broader cultural values—which should be as important as a university education—tend to be pushed aside by technical detail. Historical films such as "Institut Pasteur," "Circulation of the Blood (Harvey)" and the "Story of Penicillin" help to widen his outlook, and there is room for many more films of that kind (and especially for one on the history of pharmacy). A start has been made by the History of Pharmacy Committee of the Pharmaceutical Society, which recently made a coloured film strip of pharmaceutical equipment shown at the 1953 meeting of the British Pharmaceutical Conference. It was among the films and film strips shown at an evening meeting of the Society in London on March 14 (see *C. & D.*, March 20, p. 283).

Comparing film programmes of five years ago—"Anaesthesia"; the I.C.I. series on blood transfusion; on the general background of medicine ("Highland Doctor"), and on psychology ("Neuropsychiatry")—when the subject matter had little to do with pharmacy (they were chosen because the only catalogues well known to Branch secretaries were those of Imperial Chemical Industries, Ltd., and the Central Film Library) with those shown today one sees that the appositeness of the programmes has improved. Publication in 1952 of the Scientific Films Association "Catalogue of Medical Films" and its supplement in 1953 (available from the library of the Society), had much to do with the change. Even so, the synopses given in the S.F.A. catalogue are not always detailed enough to make a good choice possible, and the conscientious Branch secretary obtains free copies of the catalogues issued by Ciba Laboratories, Ltd., the Crookes Laboratories, Ltd., Imperial Chemical Industries, Ltd., May & Baker, Ltd., the National Film Board of Canada, T. J. Smith & Nephew, Ltd., the United States Information Service, the Wellcome Film Unit, John Wyeth & Bro., Ltd., each of which is a mine of detailed information on films at his disposal from those sources.

The production of classroom films for direct teaching is another matter. A few teachers—in any sphere—are interested enough to use films in the classroom, either because they have found them useful, or because they think films ought to be useful as teaching aids. But the films must be planned for a specific purpose; they must be easy to use; and someone must be found who will pay for them. The Pharmaceutical Society entered the field of films and other visual aids somewhat later than some other professional bodies. The Films Committee set out by asking all the schools of pharmacy in the country what apparatus they possessed for showing visual aids; to what extent such aids were used; and on what subjects they felt films were most needed for teaching purposes. The replies showed that more visual aids were used in training pharmacists than had been realised. It was also indicated that the subject for which a film was required most frequently was aseptic dispensing.

The several teachers, or ex-teachers, on the Committee prepared an outline of the subject based on the examination syllabus. The outline was submitted to subject experts for their comments, and a revised draft sent to practising teachers, who were asked to indicate important points that were difficult to demonstrate to students, and to say whether moving or still pictures would be most suitable for helping to convey the various aspects of the subject. After ten months of discussion, what had originally been thought of as a single film had become a much expanded scheme, and it was decided to make a series of short films and film strips that could be used either individually or as a series.

Provision of Money

The next step was to approach the pharmaceutical industry to provide the money to make the films. The first response to an open invitation sent to the industry through its trade association was disappointing. A list of possible sponsors was considered in committee, and individual manufacturers were supplied with the full treatment and asked if they were willing to sponsor a short film, or group of films, on any section that appealed to them as being related to their own products. As a result, several offered to supply the necessary financial support. Some have provided not only money, but also shooting facilities and the services of their expert personnel.

Several of the films are either complete or in the last stages of production. The extent to which the series is used by teachers depends not solely on the intrinsic value of the material, but also on the facilities available for projection. Probably greater use would be made of teaching films if someone were to invent a magazine-loading projector. A teacher would then be able to push a magazine of film into the projector and know that when he switched on the film would thread itself in the gate, leaving him only the task of focusing and adjusting the volume of sound. Even with that facility, the film would still have to be fully tried to determine its real value for training pharmacists in the classroom. But the outlook is promising.

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

GOGGLES USED BY WELDERS

SIR,—In "Onward from Galen" (*C. & D.*, March 20, p. 297) you state that it is becoming standard practice to use plain glass instead of blue glass goggles in welding. While clear glass gives mechanical and also visual protection from the harmful ultra-violet rays produced it does not eliminate the brilliant glare that makes observation of the welding process difficult. The temporary blinding effect is like trying to look at the sun. Blue glass or other dark coloured varieties reduce the intensity of the light emitted to a degree suited to the eyes, so that the operator may see comfortably the progress of the welding work. Clear glass is useless in that important respect.

DUBLIN WILLIAM E. THOM, D.OPT., I.O.SC.

COUNCIL CANDIDATES PLEASE NOTE

SIR,—The Brighton, Hove and District Branch of the Pharmaceutical Society has organised a meeting for the purpose of seeing, hearing and questioning those candidates for election to the Council of the Society who can accept an invitation to attend. The meeting is to be held at the Adelphi Hotel, Old Steine, Brighton, at 7.15 p.m., on Wednesday, April 7, and all surrounding branches have been invited to participate. Unfortunately it is not possible for nominations to be disclosed before that date, and specific invitations cannot be issued. May I, therefore, ask any candidate who would like to accept this general invitation to write to me as soon as possible?

11 RICHARDSON ROAD, T. G. BAXENDELL
HOVE, 3

THE TITLE "CHYMIST"

SIR,—While it may be difficult to determine when the description "Chymist" was first established in regard to those carrying on a retail business, one or two instances of its use in this connection at dates earlier than those mentioned by Mr. Matthews or Xrayser may be quoted. In "The Mystery and Art of the Apothecary," the late C. J. S. Thompson writes: "There is evidence that there were chemists' shops in London in the sixteenth century to which George Baker, a surgeon, makes allusion in 1576. He states: 'I do know some excellent chemists as one Mayster Kemmech, dwelling in Lothburie; another Mayster Geoffray in Crouched Friars, a man of singular knowledge in that way; another John Hoster . . . , and also of one Thomas Hill.'" Thompson also refers to Ambroise Godfrey (or Hankwitz) of Southampton Street who, as is well known, specialised in the production of phosphorus. Godfrey described himself as "the only chymist in London who makes inflammable phosphorus which can be preserved in water. . . . He continues to prepare faithfully all sorts of remedies, Chemical and Galenical—Good Cordials . . . Essence of Viper and Essence for the Hair." Also mentioned as in business in 1685 is "Peter Sayve who lived at the sign of 'The Still' at Pye Corner, who sold a wonderful water for relieving the gripes." George Wilson, of Anti-Rheumatick Tincture fame, is mentioned as a chemist active at this time. Thompson quotes some verses written in 1680 to show that "The chemists' shops had increased in London before the close of the seventeenth century."

LONDON, W.C.1 H. E. CHAPMAN

CHLORAMPHENICOL RISKS

SIR,—In your March 6 issue (p. 226) you published a paragraph summarising a Ministry of Health memorandum on risks attending the administration of chloramphenicol. As the compound is made by our West German suppliers, C.F. Boehringer & Soehne, G.m.b.H., Mannheim-Waldhof, and the article was brought to their notice, they have sent the comments given below.

AT least three important fallacies dominant in current thinking on antibiotics were exposed at a symposium on antibiotics conducted by the U.S. Food and Drug Administration, late in October 1953.

1. The dangers of chloramphenicol were highly over-publicised last year. According to Dr. Ethan Allen Brown, Boston, the criticism levelled on chloramphenicol was the result of "pseudo-statistics" and early poor clinical evaluation techniques. When the field was again surveyed, the supposed side-effects, allergic and toxic, proved to be far fewer than expected and in actually thirty-four unpublished cases of anæmia due to oxytetracycline and chlortetracycline were uncovered. Re-establishment of confidence in the drug was revealed by the financial statement of its producer showing that sales in the third quarter of 1953 were slightly above those of the corresponding figure for 1952.
2. Speakers indicated that the fear of developing resistant organisms had also been overplayed. The belief was expressed that the development of antibiotic-resistant organisms might have reached its peak, and that improvement rather than further deterioration was to be expected. According to Dr. Harry Dowling (University of Illinois), the most troublesome resistant organisms really had such resistance from the beginning and did not develop it as a result of overuse of the antibiotics.
3. The sensitivity problem could also be minimised if physicians would take better care in selecting the proper antibiotic to be used and not administer antibiotics to patients with sensitivity histories.

LEWES, SUSSEX COURTIN & WARNER, LTD.,
J. C. ATTWOOD, *Director*

Onward from Galen

A CURRENT CAUSERIE

AMONG the buyers, or would-be buyers, at Sotheby's sale rooms in Bond Street, London, on March 23, were several pharmacists. What attracted them was that among the Fine English Pottery of the T. Murray Ragg collection, which was being sold "by order of the trustees," were a Lambeth Delft ointment pot and early dated drug jar; and that other drug jars, some described as rare or very rare, were among the "various properties" also on sale that day. Sandwiched between a miniature jug "with bulbous body" and a sweetmeat dish "with scalloped sides," the ointment jar appeared as lot 16, with the catalogue description:

> A LAMBETH DELFT OINTMENT POT, inscribed on one side *Restorative Electuary Prepared by/T. Townshend Chymist to His Majesty/Hay Market*, the reverse with bust portrait of a man, $2\frac{3}{4}$ in.

and a footnote mentioned that

> Agnes Lothian in *The Connoisseur Year Book* 1953 illustrates a similar ointment pot by Thomas Townshend; "Chymist to George II," p. 8, pl. XLVI and his trade card on pl. XLVIII.

The sale proceeded unhurriedly but without pause, and informally yet not without a certain apparent ritual. Each object was carried on a tray by an overalled attendant along the opening within a narrow U of baize-topped tables where sat the inner ring of buyers. As he passed up and then back some made a show of examining each object. Others as nonchalantly ignored it, but one and all gave the impression of studiously concealing that they had minutely examined the pieces beforehand. An outer ring of onlookers—the amateurs, no doubt—appeared more comfortably seated on chairs and settees possibly intended for auction on another day. The rest stood around among the reminders (suits of armour, barometers, mirrors, clocks and cabinets) that Fine English Pottery is only one among many classes of objects sold at Sotheby's (and within that class, as the catalogue showed, drug jars are but a small minority). The massive skylight of the saleroom was admitting a welcome touch of sunlight, making the chandeliers—a most varied assortment—sparkle cheerfully above bidders schooled to show neither chagrin nor triumph as the auctioneer knocked a coveted piece down, say, "At £50. To Mr. Lovell." About the prices fetched for the drug jars our lips shall be sealed, except to say that none resulted in bidding up to the £950 for which a "very rare saltglaze pew-group of a man and woman" was eventually sold.

INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

GLANDO tablets
LANGDALE combs
Eye-lash dye

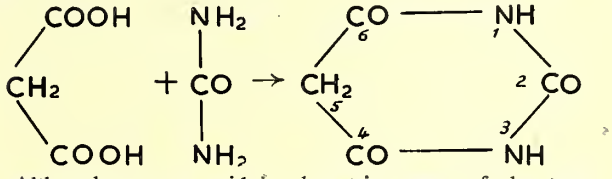
THE BARBITURATES

A survey of structure, action and uses

By S. J. Hopkins, Ph.C.

THE laws of supply and demand operate as powerfully in medicine as in other fields of human endeavour, and the multiplicity of barbiturate drugs and mixtures now on the market is an index of the present-day need for sedatives of this type. The exploitation of the potentialities of a basic compound and its derivatives is a familiar process, but few groups have yielded so many useful drugs as the barbiturates. Today the physician has a remarkable range of sedatives at his command, and in the following article an attempt is made to review the properties and relationships of some available compounds.

The parent compound, barbituric acid, from which all barbiturates are ultimately derived, is a pyrimidine derivative, obtained by the condensation of malonic acid and urea.



Although not an acid in the strict sense of the term, barbituric acid can exist in an "enol" or a "keto" form, and the former functions as an acid and forms soluble sodium salts. A large number of derivatives have been synthesised since the introduction of Veronal in 1903, and certain basic principles are recognisable in therapeutically active compounds. The parent compound is useless clinically, and hypnotic properties do not appear until the hydrogen atoms in the 5:5-position, which are very reactive, are replaced with suitable alkyl or aryl groups. The basic hypnotic effect is subject to marked variation according to the nature of these side-chains and the number of carbon atoms of the substituent groups. To be clinically effective, the number of carbon atoms on the 5:5 side-chains should not be less than four or more than eight. Larger groups may confer greater hypnotic power, but toxicity also increases, and clinically such compounds are useless. Variations in degree and nature of activity are also exhibited by different types of substituent, whether primary or secondary alcohol, saturated or unsaturated, straight or branched chain, etc. Additional substitution can also occur in the 1 and 3 positions. Thus the 1-methyl-5:5 *cyclo*-hexenylmethyl-barbituric acid is a compound of outstanding importance, but the 1:3 dimethyl compound has little hypnotic effect and is very toxic.

Great changes in activity are also shown if the condensation of malonic acid is effected with thiourea instead of carbamide. Compounds of this type are broken down very rapidly in the body and have immense value as short-term anæsthetics.

Relationship Between Structure and Clinical Use

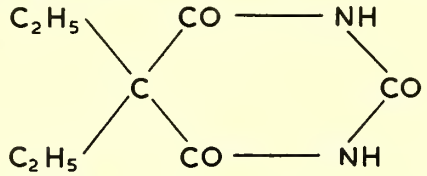
The type of action exhibited by the barbiturates depends both on structure and rate of detoxification and excretion. The older barbiturates are mainly short-chain compounds, and such drugs tend to escape breakdown in the body, the greater part being eliminated unchanged in the urine. The effect of such drugs as barbitone, phenobarbitone and allobarbitone is therefore long. Other derivatives with longer, branched or aromatic side-chains are largely broken down by the liver, and only after exceptionally large doses is the drug found in the urine. Hexobarbitone is an extreme example. In normal subjects it has a very brief action, but in a patient with liver damage the rate of breakdown is markedly reduced, and anæsthesia may last for hours instead of minutes.

While all medicinal barbiturates have a sedative or hypnotic effect, the presence of some substituents may modify that action. Thus barbitone (diethylbarbituric acid) is a straight hypnotic, but the introduction of a phenyl group, as in phenobarbitone, confers marked anticonvulsive powers, hence the value of this compound in epilepsy. It is also of interest to note that some variation of effect is observed between the action of isomers. One of the best known examples of this is shown by the isomers amylobarbitone and pentobarbitone. The former inhibits the cardiac action of the vagus nerve, an effect not shown by comparable doses of pentobarbitone.

Some Compounds of Interest

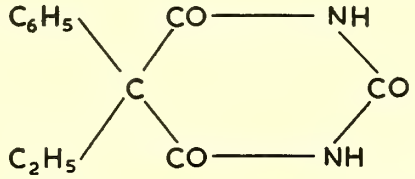
For practical purposes medicinal barbiturates can be divided into four main groups: the long-acting, the medium- and short-acting compounds, and the intravenous anæsthetics, although differentiation between some members of the first three groups is not easy. The following are representative compounds.

BARBITONE (diethylbarbituric acid). Dose: 5-10 grains.



Barbitone, the original barbiturate, was introduced under the name Veronal. Absorption and excretion are slow, and the drug is now less often prescribed. The sodium salt (Medinal) is much more soluble, and as a potent, long-acting hypnotic it has a unique place.

PHENOBARBITONE (phenylethylbarbituric acid). Dose: ½-2 grains.



Introduced as Luminal, phenobarbitone is one of the most widely prescribed of all barbiturates. In low doses it is a valuable sedative, and in full doses a powerful hypnotic. Side reactions are few, and the drug has been taken for

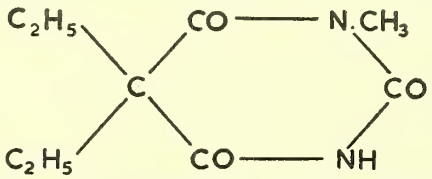
long periods without any apparent adverse effects. The phenyl group appears to be associated with a specific depressant action of the drug on the motor cortex, and that has led to the extensive use of the compound as an anticonvulsant in the treatment of epilepsy. It is worth noting that, although the official maximum dose is 2 grains, 5-grain tablets are listed by some drug houses. In cases of suspected poisoning, where rapid identification may be required, it should not be assumed that a plain white tablet weighing about five grains or so must of necessity be barbitone.

In hospital practice there is a frequent demand for phenobarbitone by injection. Ampoules of dry phenobarbitone sodium are often supplied, to be dissolved in sterile water at the time of use, as aqueous solutions do not keep. Such solutions are troublesome to prepare, but a stable solution can be prepared with phenobarbitone sodium on the following lines:—

Phenobarbitone sodium	gr. 3
Benzyl alcohol 2 per cent. Water 23 per cent. Propylene glycol 75 per cent.	to 1 mil

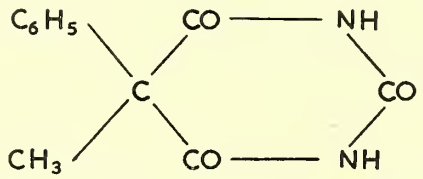
This solution can be sterilised by heat, is fluid enough to be injected easily, and permits an adequate dose of sedative to be given in a small volume of injection. The benzyl alcohol is included both for its antiseptic and local anæsthetic properties.

METHARBITAL (Gemonil) N-methyl-5:5 diethylbarbituric acid. Dose: 0·1-0·2 gm. Methurbital has become available but recently in this country. It bears the same relationship



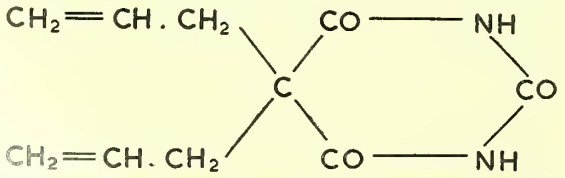
to barbitone as phemitone does to phenobarbitone. It is indicated mainly in the control of epilepsy. Like phemitone, it is less depressant than phenobarbitone.

'RUTONAL' (phenylmethylbarbituric acid). Dose: 1-3 grains.



A lower homologue of phenobarbitone, with similar but less intense activity. This is reflected in its larger dosage (1-3 grains).

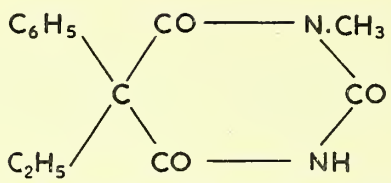
ALLOBARBITONE (Dial) (diallylbarbituric acid). Dose: ½-3 grains.



Allobarbitone is an example of a barbiturate with unsaturated side-chains. The potentiating effects of such a structure as compared with barbitone are indicated by its lower dose.

PHEMITONE (N-methyl-5:5-phenylethylbarbituric acid). Dose 1-3 grains.

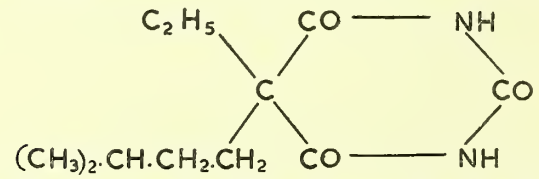
The introduction of the methyl group in the 1-position increases the antispasmodic effect whilst reducing the purely hypnotic action. The compound is therefore indicated



principally in the treatment of grand mal and petit mal, particularly by those patients who find the sedative effects of phenobarbitone too strong. Phemitone is less toxic than phenobarbitone, and may be given over long periods.

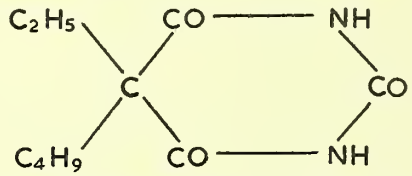
Medium Barbiturates

AMYLBARBITONE (Amytal) (ethyl-*iso*-amyl-barbituric acid). Dose: ½-5 grains.



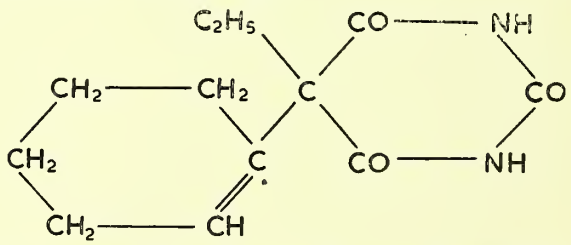
The basic compound, as well as the sodium salt, has wide uses in psychiatric conditions as a sedative and hypnotic in doses ranging from ½ to 5 grains. The sodium salt is also given intravenously as a 5-10 per cent. solution in doses of 0·5-1 gm. as a basal anæsthetic and as an anticonvulsant in the treatment of tetanus. Structurally the compound is isomeric with pentobarbitone, but there are distinct differences between their pharmacological actions.

BUTOBARBITONE (Soneryl) (ethylbutylbarbituric acid). Dose: 1-2 grains.



One of the most widely prescribed hypnotics, butobarbitone is classed by some authorities as a long-acting barbiturate, and by others as a drug with a medium action. The onset of effect is fairly rapid (thirty minutes), and elimination is such that after-effects are few and slight.

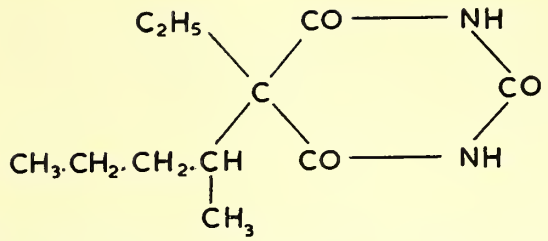
CYCLOBARBITONE (Phanodorm) (ethyl-*cyclo*hexenyl-barbituric acid). Dose: 3-6 grains.



Cyclobarbitone has an aromatic substituent instead of an aliphatic group, and can be classed as a drug with a short-to-medium action. Compounds of this type are broken down mainly by the liver; hence hepatic damage is a contra-indication, and if so used, might have an abnormally prolonged effect.

PENTOBARBITONE (Nembutal) (ethyl-(1-methyl-butyl)-barbituric acid). Is employed exclusively as the sodium salt. Dose: 1½-3 grains.

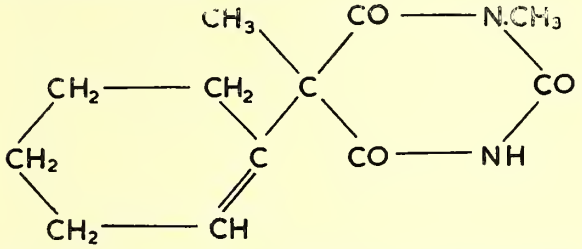
Pentobarbitone is an isomer of amylobarbitone, but has a quicker action and is effective in smaller dose. Although of definite value in insomnia, it is widely employed for pre-operative sedation before the administration of an inhalation anæsthetic. It is especially suitable for children.



Used intravenously as a 2·5-5 per cent. solution, it is of value in the treatment of convulsive states, causing relaxation of spasm and unconsciousness within a minute. The drug may also be given rectally.

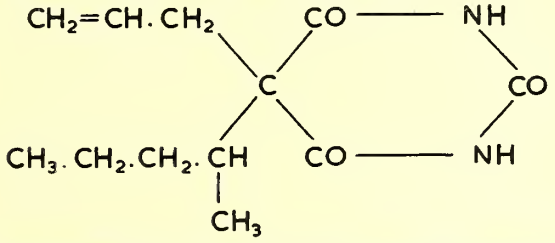
Short-acting compounds

HEXOBARBITONE (Evipan, Cyclonal) (N-methyl-*cyclo*-hexenylmethyl barbituric acid).



One of the most rapidly acting barbiturates available, hexobarbitone makes its effects manifest in about twenty minutes. The rate of breakdown in the body is high, and the sleep induced by the drug is succeeded by natural sleep without any after-effects. It is thus a valuable drug in the treatment of initial insomnia, where the patient has difficulty in dropping off to sleep, but does not afterwards awake until a normal hour. The intravenous use of the drug will be discussed later.

QUINALBARBITONE (Seconal) (sodium salt of allyl-(1-methylbutyl) barbituric acid). Dose: ¾-3 grains.



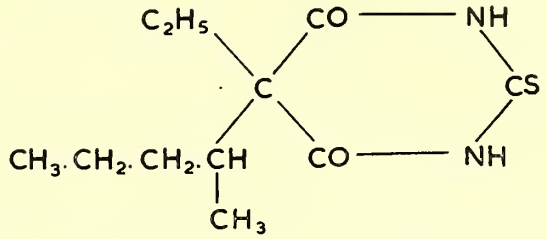
Quinalbarbitone is a relatively short-acting compound and, like others of the group, is metabolised in the liver. Side-effects are uncommon, and in sleeplessness due to anxiety the drug is safe and reliable.

Intravenous Anæsthetics

HEXOBARBITONE SODIUM. The introduction of hexobarbitone sodium as a short-acting anæsthetic, given by intravenous injection, opened a new chapter in the history of anæsthesia. Administered as a 10 per cent. solution at the rate of about 1 mil per quarter-minute, it may be used as an induction or basal anæsthetic, or for complete anæsthesia, according to the size and frequency of dose. Loss of consciousness is apparent in a matter of seconds, and recovery takes place within half an hour after the injection stops.

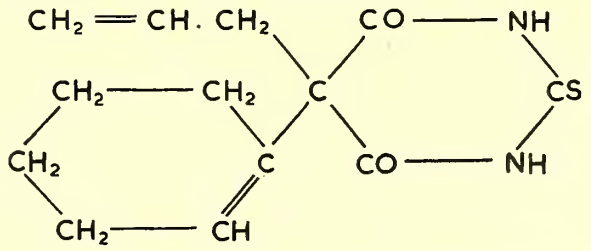
Like the first drug in many other fields, hexobarbitone has some disadvantages. Thus respiratory depression is a constant hazard, although careful technique can reduce the risk. An unpleasant side-effect is the extensive muscle twitchings that may occur. They are not dangerous, but they can be very disturbing, although adequate pre-medication can reduce the severity. Laryngospasm may also be a complication, and for these and other reasons the use of hexobarbitone sodium has declined.

THIOPENTONE SODIUM (sodium ethyl (1-methylbutyl) thiobarbituric acid).



The compound thiopentone sodium is the thio-analogue of pentobarbitone. It is used extensively for intravenous anæsthesia in the form of a freshly prepared 5 per cent. solution. The degree of respiratory depression is less than that produced by hexobarbitone sodium, and muscular relaxation is increased. The relaxation is amplified by the concomitant use of curarising drugs, and the combination is most useful. The amount of barbiturate required is reduced, and can be adjusted more accurately to give the required depth of anæsthesia.

'KEMITHAL' (allyl*cyclo*hexenyl thiobarbituric acid).



The sodium salt of allyl-*cyclo*hexenyl thiobarbituric acid is used, like thiopentone sodium, as an intravenous anæsthetic in 5-10 per cent. solution. The dose required is about twice that of thiopentone, but respiratory depression is even less and laryngeal spasm is uncommon. Nausea and post-operative sequelæ are rare, and it is perhaps a little surprising that the drug is not used more extensively. Kemithal is also exceptional from the structural point of view as it has nine carbon atoms attached in the 5:5 position, the usual maximum for optimum activity without undue toxicity being eight.

Mode of Action and Theories of Sleep

Although extensive researches have been carried out with the aim of elucidating the mode of action of the barbiturates, there are many gaps in the general picture. Barbiturate-induced sleep resembles natural sleep very closely, and it is tempting to assume that they have a selective action on some hypothetical "sleep centre."

Sleep is a normal physiological state in which tissue repair and energy renewal take place, and is a classic example of the axiom that compensatory physiological rest must follow bodily activity. It is initiated by a general muscular relaxation, whilst respiration becomes slower and deeper. At the same time perceptive and sensory faculties become blunted, the stimulatory threshold is raised and, when ordinary environmental stimuli no longer evoke any response, sleep supervenes.

Sleep therefore appears to be due basically to a reduction in activity of the central nervous system, but the mechanism has yet to be explained. At one time it was thought that cerebral ischaemia (reduction in blood supply to the brain) was the cause, brought about by the accumulation of lactic acid in the tissues. There is no evidence, however, that injections of lactic acid induce sleep, and such a theory ignores the well-known experience that muscular fatigue is no guarantee that sleep will follow.

The "hormone" theory of sleep is a fascinating one, but no proof of the existence of a sleep-producing hormone has yet been devised. It has been stated that the pituitary gland has a higher bromine content than the other tissues during waking hours, and that the level falls sharply during sleep. Hence a sleep-hormone of the pituitary gland has been postulated, and it is considered that sleep follows the release of that hypothetical hormone.

The greater part of the experimental and clinical evidence indicates, however, that the hypothalamus is closely involved in the sleep process. It has been claimed and denied that there is a selective absorption of barbiturates by certain brain cells, but as it is well-known that many drugs are not selectively taken up but become uniformly distributed throughout the body, a selective response may be due to an increased sensitivity of the tissue rather than to a local concentration of the drug.

In passing, it must be remembered that barbiturates have no significant analgesic effect, and in the insomnia due to pain they are useless if given alone. Some potentiation of effect is obtained by administration with an analgesic, and the combination is most useful in cases where recourse to morphine-like compounds is not desired.

Administration

Medicinal barbiturates are bitter-tasting compounds, and for that reason are usually given as tablets or capsules. The taste of aqueous solutions of the soluble derivatives is not only difficult to disguise, but such solutions do not keep well, and a precipitate of the insoluble base may eventually be thrown down, with possibilities of accidental overdose. If liquid preparations are particularly desired, elixirs containing fairly high proportions of alcohol and glycerin may be devised on the lines of the B.P.C. elixir of phenobarbitone. Some proprietary mixtures contain hexamine, which has the advantage of increasing the solubility of the barbiturate. For injection purposes the problem must be tackled along different lines. A suggestion has already been made concerning a solvent for phenobarbitone soluble; if the base is desired, the addition of urethane has been suggested by several workers, and it is interesting to note that paraldehyde as a solvent is the subject of an American patent. The idea would seem to have distinct possibilities in the formulation of a solution with a twofold effect.

Toxicity

The therapeutic index of any drug (i.e., the ratio between the toxic dose and the therapeutic dose) should of course be high, and that explains why many potentially interesting compounds never reach the market. Undoubtedly active, they have toxic and therapeutic doses too close to one another, so that the margin of safety is unduly narrow to permit of their clinical use. In the barbiturates the ratio tends to rise with increasing molecular weight, but it has yet to be proved conclusively that any significant differences exist, from the point of view of toxicity, between the barbiturates now on the market.

In ordinary doses the barbiturates have little effect on the cardiovascular system, and even the intravenous compounds have little direct effect on the myocardium. In full doses they cause some hypotension or reduction in blood pressure, which increases with increasing dose. The hypotension affects the output of urine, excretion is delayed, and that in turn extends the action of the drug.

The main toxic effects of the barbiturates are on the respiratory system, and death from barbiturate poisoning is usually ascribed to respiratory failure. In normal doses the respiratory depression was most often observed with the intravenous barbiturates but, with the advent of the muscle-relaxant drugs, and consequent reduction in the amount of barbiturate used, that particular risk has become of lesser importance.

The possibility that alcohol may increase the toxic effects of barbiturate drugs has been discussed recently in the medical Press. Both drugs depress the respiratory centre, and, though heavy drinkers may well be able to take a normal dose of a barbiturate, the margin of safety is lowered. Thus patients taking full doses of barbiturates should be warned of the need to reduce their intake of alcohol.

Treatment of Poisoning

The large numbers of barbiturate compounds now prescribed have led to an increase in cases of poisoning, both accidental and from self-administeration. Treatment follows the conservative line of stomach washouts to remove unabsorbed drug, and the administration of nervous-system stimulates to overcome the central depression.

Chief among the stimulants is picrotoxin. Indeed, the treatment of barbiturate poisoning is the only therapeutic application of that compound. It is given as a 1-1,000 solution by intravenous injection, at the rate of 1 mil per minute. The dose required depends on the quantity of barbiturate taken, and in those circumstances the amount of picrotoxin given is often sufficient to kill a normal person. The aim is to restore the normal reflexes, even to a point just below the production of convulsions, by a slight excess of picrotoxin. The dose must therefore be controlled very carefully when the patient shows signs of returning consciousness.

As an alternative, amphetamine and methyl-amphetamine may be used, and in some ways are to be preferred. Full doses do not cause convulsions, and the increase in blood-pressure that they cause is an advantage. Possibly both drugs should be used, the picrotoxin to act as an immediate antidote. As the dose required begins to fall, amphetamine could be given for its blood-pressure-raising and cortex-stimulating effects.

Another antidote of more than passing interest is sodium succinate. This is a powerful respiratory stimulant, and as such it has a useful place in the management of barbiturate overdosage. It is administered by intravenous injection as a 30 per cent. solution in doses of 3-5 mils, repeated as the condition demands, following the initial improvement in respiration and peripheral circulation.

The field of barbiturate chemistry has been studied so exhaustively that it is perhaps unlikely that any major advances remain to be disclosed but the possibilities of advances in use, rather than in structure, should be borne in mind.

Detection in body fluids

It occasionally happens that, in cases of suspected barbiturate poisoning, the physician prefers chemical confirmation before commencing treatment. A prompt answer is therefore essential, but many of the suggested methods are too slow to be of any value.

More recently a rapid method has been devised (*B.M.J.*, 1953, **2**, 379). The method is less sensitive but, provided the necessary reagents are at hand, can be carried out in less than fifteen minutes. Briefly it is as follows:—About 50 c.c. of urine or stomach contents is acidified with dilute acid and extracted in a separating funnel with 20 c.c. of chloroform. The chloroform layer is run off and dried by adding 5-10 gm. of anhydrous sodium sulphate. About 0·5 gm. of activated charcoal is added as a decolorising agent, and the chloroform is then filtered off and evaporated to dryness. The residue is collected by rubbing on a filter-paper wrapped round the end of a glass rod. The paper is removed and flattened out, when the barbiturate residue should appear as a pale yellow spot. A drop of cobalt nitrate solution (1 per cent. in methyl alcohol) is added, the paper dried by warming over a flame, and exposed to the fumes of ammonia by holding it over the mouth of an open bottle of strong liquid ammonia. The development of a reddish-violet colour on the paper is taken as evidence of the presence of a barbiturate in the original material.

HOSPITAL PHARMACY FORUM

SUPPLIES ARRANGEMENTS

A YEAR or two before the Health Service came into being the pharmacists of the Birmingham hospitals anticipated certain aspects of it by setting up a machinery for the joint purchasing of drugs and dressings. They foresaw that under a unified hospital scheme it would be irrational to continue a multiplicity of small independent buying units often buying at a disadvantage in comparison with the terms available to the larger hospitals. A degree of centralisation was bound to come sooner or later, and it could be that responsibility might pass from the pharmacist to a lay officer, who would not have the technical knowledge of the commodities he handled. He would also certainly lack the close professional liaison that has for so long existed between the hospital pharmacist and his colleagues in the manufacturing houses. The Birmingham pharmacists therefore set up a joint organisation, which eventually received the recognition of the administrative authorities and which arranges contracts on advantageous terms for a large number of hospitals in the area.

Strained Relations

What Birmingham feared came to pass. Supplies officers were appointed in many hospitals and regions. Many of them were formerly employed in administrative work in the old municipal and county hospitals or in poor law institutions as stewards. However excellent their qualities in other spheres, their qualifications for handling pharmaceutical matters were, to say the least, slender. In many instances they were appointed at salaries higher than those paid to pharmacists, and that gave rise to resentment, suspicion, jealousy and in a few cases open hostility. The wiser supplies officers attempted to establish good relations with their pharmaceutical colleagues and to work as a partnership, but even in those conditions the pharmacist found himself in an uncongenial relationship, and a bad feeling was engendered which may take long to eradicate.

In recent times several groups, especially those in the London area, have launched schemes similar to that which proved successful in Birmingham, and there is discussion as to the fundamental rightness of this development. The present appears, therefore, to be an appropriate moment to discuss the rôle of the pharmacist as a supplies officer and administrator.

The primary function of the pharmacist in hospital is to provide the medicaments. He alone of the hospital team has the necessary training to act as arbiter of quality and to safeguard the patients against error from mistaken identity, against failure of supply of infrequently used drugs, against loss of potency or increase of toxicity through wrong storage conditions, and many other such matters. He is able also to protect the hospital and the public against loss by seeing that drugs and dressings are properly stored and cared for. No supplies officer who is not pharmaceutically trained is in a position to do these things, and it is on that ground that the pharmacist claims his place as a professional man. Whether he is the right man to arrange and sign contract forms, check and authorise invoices and statements and all the other incidentals of business transactions is a secondary matter. One would imagine that a person capable of gaining entry to the register of a professional scientific body would be capable of understanding normal business routine of this kind. If, however, the hospital authorities wish to make one officer responsible for the issue of all orders and the acceptance of all invoices in the name of the governing body, it is hard to see why the pharmacist should complain, so long as his authority in the matters mentioned above is not impugned. The joint buying arrangements now being investigated may offer a way of reconciling the two functions. The committee of pharmacists will have the necessary competence to select materials of the right quality and to recommend to the regional authority suitable contracts. The requisitioning from the contractor may then be left with the individual pharmacist or with a supplies officer according to the requirements of any particular hospital.

One often wonders, however, to what extent the pharmacist exerts his prerogative in the matter of quality and storage conditions. We are fortunate in this country in having a large number of firms of high repute, which not only maintain within their own laboratories the highest standards of manufacture, but contribute through their personnel to the general advancement of the profession at its scientific conferences and in its journals. The pharmacist in the hospital can confidently place his contracts with such companies and depend to a great extent upon the analytical control exercised by them. To do so, however, requires of the pharmacist a first-hand knowledge of the manufacturers' procedures, and he should avail himself of the many opportunities provided to visit them and see for himself, and also to make the acquaintance of their technical staffs. The warranty thus provided is a reasonable one so far as it goes, but it does not entirely cover the pharmacist's responsibility. It may happen, for example, that tablets of digitalis leaf or of glyceryl trinitrate are deficient in potency when issued to a patient. The clinician may suspect that to be the case and ask the pharmacist's advice. It is not good enough to reply "I bought them from A.B., Ltd., and they are a good firm." He must be able to say "I will examine them or have an independent analysis made." He must be able to say "Yes: these tablets are liable to deterioration. We have provided the most suitable conditions we can and it is evident that nevertheless the tablets have deteriorated. They will be destroyed."

Again, with dressings, it is not good enough to buy on the best terms from D.E., Ltd. The plaster and the cotton wool may be in excellent condition on leaving the factory, but must be kept under scrutiny by the pharmacist to guard against deterioration. He should be ready to make spot checks on absorbency, weight, adhesion and other properties and to reject unsuitable materials.

Perhaps there are too many items to allow any one pharmacist to control them all. Under the grouping arrangements there is the possibility of co-operation under which each pharmacist would develop an interest in a particular kind of product, the responsibility of quality control being thus shared. That kind of activity has not hitherto been pursued extensively, and it would be of value to see what would come to light if it were developed.

This is not a plea for elaborate and expensive analytical equipment in the hospital pharmacy. The majority of the investigations necessary can be simply carried out, and the more elaborate ones, when they arise, may be sent to an analyst for a quite modest fee. What is needed is a fresh approach to the pharmacist's responsibility for quality, upon which alone rests his claim to professional respect.

UNSEATED

MISS Newly-employed
Was shown how to avoid
Long discussions with "reps."
And exactly what steps
To take with inspectors
And subscription collectors;
All the chronic debt cases,
The talkative faces,
The first-aid emergency,
The "bob-for-gas" urgency.
We went through the list
But there's one that we missed.
What indignant surprise!
As she fixed with the eyes
Of a Spanish inquisitor
A diffident visitor
Who, with the law on his side
Was obliged to confide
His interest in the existence
Of "Seats (Female Assistants)".

J. J. H.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MARCH 24: In the market for CRUDE DRUGS, TOLU BALSAM provided one of the few features of the week, its price rising by 3s. 6d. per lb. for shipment. Commodities that have recently been displaying a firm tone maintained, and in some instances increased, their price levels.

GUM ACACIA was 2s. 6d. to 3s. per cwt. dearer, despite a reluctance on the part of buyers to negotiate business. Offers of Jamaican new-crop GINGER were received from origin, whilst old-crop on the spot was marked up a further £1 per cwt. Although the present price for ginger is much more attractive to growers than last year's, it has been stated in Sierra Leone that the rise has so far failed to revive interest there, and that part of the crop will be left in the ground. Shortage of MACE at origin accounted for a sharp advance both in the spot and forward rates. RAUWOLFIA is scarce on the spot, and the shipment position is said to have deteriorated. No interest was shown in PEPPER, and all varieties registered a further fall in value. Moroccan CUMIN and CORIANDER SEEDS were slightly dearer for shipment, and English MUSTARD SEED was firmer through Dutch and German buying. The position of IPECACUANHA was generally unchanged.

The manufacturers of PENICILLIN have announced further price cuts effective from March 29 and on the same day VITAMIN B_{12} is also being reduced in price.

In ESSENTIAL OILS there were only minor adjustments in the price levels. With the possibility of importing essential oils from the United States there was a steady inquiry which tended to keep prices up. Quotations for Californian citrus oils have been received; the offers being on a c.i.f. basis and, of course, subject to licence.

The Ministry of Food has announced new prices for unrefined oils supplied to primary wholesalers and large trade users during the four weeks from March 21 and for refined oils during the period April 18 to May 8 (the final period before decontrol). All show a reduction.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, MARCH 23: SULPHURIC ACID sales held their gains as agricultural demand moved towards expansion. CALCIUM CHLORIDE sales were slower. Orders for CARBON TETRACHLORIDE and CARBON BISULPHIDE declined somewhat. Elsewhere on the chemical scene the decline of three cents per gall. in ETHYL ALCOHOL prices was the principal feature, bringing prices back to the level of November 1952. The pure ETHYL ALCOHOL, without tax, was quoted at 40 cents per gall., while the solvent proprietary grade was priced at 43 cents. A leading producer also cut ISOPROPYL ALCOHOL to 39 cents per gall. for the 99 per cent. grade, down three cents; 37 cents for 95 per cent. material, down 2¾ cents; and 35 cents for 91 per cent. grade, down 2½ cents.

Reduced in price is CALCIFEROL at 75 cents per gm., down five cents. Higher per lb. among BOTANICAL DRUGS were HYDRASTIS, at $2·35, up 25 cents; and American SAFFRON at $1·25, up 15 cents. PATCHOULI OIL at $8·00 was up 50 cents per lb.

Pharmaceutical Chemicals

CARMINE. — 1-cwt. lots are about 82s. 6d. per lb.

CHALK.—In minimum 1-ton lots powder is £21 and cones, £22 10s. per ton.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 6s. per lb., in 1-cwt. drums.

CHLOROFORM.—1-cwt. lots in winchesters are now 3s. 6d. per lb.; 56-lb., 3s. 6½d. In drums, prices are 3s. 4d. and 3s. 4½d.

CHLOROXYLENOL.—B.P. quality is quoted at 6s. 9d. per lb. for 1-cwt. lots.

CINCHOPHEN.—1-cwt. lots are quoted at 1s. per lb.

CITRIC ACID.—British makers quote 205s. per cwt. for 1-4-cwt. lots and 200s. per cwt. for 5-cwt.

HEXOBARBITONE. — B.P. in 1-cwt. lots is 70s. per lb.

HYDROCYANIC ACID. — Dilute B.P.C. is from 1s. 4d. to 1s. 11d. per lb., as to quantity; Scheele's is from 1s. 8d. to 2s. 3d.

HYOSCINE HYDROBROMIDE.—1-oz. lots are 95s. for British material.

IODINE and preparations. — Quotations are as follows:—

B.P. materials	Per lb.		Per kilo	
	1-cwt.	28-lb.	50 kilos	12½ kilos
	s. d.	s. d.	s. d.	s. d.
POTASSIUM IODIDE	14 4	14 10	31 7	32 8
SODIUM IODIDE ..	15 10	16 4	34 11	36 0
IODINE, RESUB. ..	15 10	16 4	34 11	36 0
IODOFORM POWDER	25 4	25 10	55 10	57 0
IODOFORM CRYSTAL	28 0	28 6	61 8	62 10

The prices of minor iodides in 7-lb. and 1-lb. lots are:—AMMONIUM, 21s. 21s. 6d.; ARSENIC TRI- 47s., 48s.; CADMIUM, 22s., 22s. 6d.; CALCIUM (PLATES), 21s. 6d., 22s.; ETHYL, 27s., 28s.; IRON, 23s, 23s. 6d.; LEAD, 22s., 22s. 6d.; LITHIUM, 28s., 28s. 6d.; STRONTIUM, 22s. 3d., 22s. 9d.; ZINC, 27s., 27s. 6d.

OPIATES.—Home trade rates for 4-oz. up to 7-oz. lots including container (non-returnable) are as follows:—CODEINE.—alkaloid, hydrobromide, iodide, 58s. 6d. per oz. (2,063s. per kilo); hydrochloride, sulphate, 51s. 3d. (1,808s.); phosphate, 44s. 9d. (1,578s.). DIAMORPHINE.—Alkaloid, 60s. 3d. per oz. (2,125s. per kilo); hydrochloride, 54s. 9d. (1,931s.). ETHYLMORPHINE.—Alkaloid, 63s. per oz. (2,222s. per kilo); hydrochloride. 53s. 9d. (1,896s.). MORPHINE. — Alkaloid, bimeconate, tartrate, 60s. 6d. per oz. (2,134s. per kilo); acetate, hydrochloride, sulphate, hydrobromide, 50s. 3d. (1,773s.).

PARALDEHYDE.—Carboys lots of pharmaceutical grade are 1s. 10½d. per lb.

PHENYTOIN SODIUM. — Quotations for 1-cwt. lots are 27s. 6d. per lb.

POTASSIUM PERMANGANATE. — Rates for B.P. material for 1-cwt. lots is 1s. 8½d. per lb., and for technical, 181s. 6d. per cwt.

PROCAINE HYDROCHLORIDE. — 1-cwt. lots are 30s. per lb.

QUININE.—Makers' rates (per oz.) for 100-oz. lots and over are as follows:—ALKALOID, 3s. 10d.; ACETYLSALICYLATE. 5s. 4d.; BISULPHATE and SULPHATE, B.P. 1932, 2s. 8d.; SULPHATE, B.P. 1948. 3s.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 3s. 10d.; FORMATE, 4s. 8d.; GLYCEROPHOSPHATE, 4s. 5d.; PHOSPHATE, 4s. 4d.; HYDROBROMIDE and HYDROCHLORIDE, 3s. 5d.; SALICYLATE. 3s. 11d.; QUININE and UREA HYDROCHLORIDE, B.P.C., 4s. TANNATE, 2s. 7d.

ROCHELLE SALT. — Rates (per cwt.) for powder or granulated material are as follows: In 5-cwt lots or over, 180s. per cwt.; 1-cwt. 182s. 6d. SEIDLITZ POWDER ordinary strength is 144s. per cwt. in 1-cwt. lots; smalls, from 1s. 9½d. to 2s. 0½d. per lb. Extra-strong is 155s. per cwt., and from 1s. 10½d. to 2s. 1½d. per lb. for small quantities. Double-strength is 161s. per cwt.; smalls, 1s. 11½d. to 2s. 2½d. per lb.

SALICYLIC ACID.—Prices are: 5-cwt. lots in bulk, 2s. 11½d. per lb.; 1-cwt., 3s.; 56-lb., 3s. 7d.

SALOL.—Quotations for B.P.C. are about 9s. per lb. for 1-cwt. lots.

SODIUM ACETATE. — B.P.C. powder in 28-lb. lots is 1s. 9d. per lb.

SODIUM CARBONATE. — B.P. exsiccated is 60s. 6d. per cwt.

SODIUM CHLORIDE. — Re-crystallised is 20s. per cwt.

SODIUM PERBORATE. — Prices (per cwt.) are 142s. 9d. in 1-cwt. kegs; 135s. 3d. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). Other strengths pro rata. The PERBORATE MONOHYDRATE testing 15 per cwt. available oxygen is 305s. 3d. per cwt.

SULPHANILAMIDE. — Rates per lb. are now, 5-cwt. lots, 8s. 6d.; 1-cwt., 8s. 8d.

Crude Drugs

BALSAMS.—Quotations (per lb.) are:—*Canada:* 21s. 6d., spot. *Copaiba.* soluble Para, 12s. 6d.; insoluble, 8s. 6d., spot. *Peru,* firm at 9s., in bond. *Tolu* (genuine as imported), has advanced to 25s., spot, and 25s., c.i.f.

BENZOIN.—Sumatra block No. 1 on the spot is from £32 to £35 per cwt.

BISMUTH METAL.—Minimum rate is 16s. per lb.

BUCHU.—Short round leaves for March shipment are offered sparingly at 2s. 2d. per lb., ex warehouse. Spot is about 2s. 3d.

CALUMBA. — Ordinary natural sorts are quoted at 87s. 6d. per cwt. on the spot.

CAMPHOR. — Chinese (B.P.) powder remains scarce on the spot with offers at 4s. 9d. to 5s. per lb., duty paid. ¼-oz. tablets are 5s. 3d. per lb.; 2½-lb. slabs 4s. 9d. per lb., duty paid. Synthetic powder is 3s. 7d. per lb. for 100-lb. lots.

CAPSICUMS.—East African on stalk are 160s. per cwt., spot. Abyssinian, off stalk. 200s., spot.

CARDAMOMS.—Aleppy greens are 15s. 9d. per lb. on the spot; shipment offers are 14s. 6d., c.i.f.

CASCARA SAGRADA. — Firm. Offers for shipment are fully 285s. per cwt., c.i.f. Spot supplies are 325s., duty paid.

CASSIA BARK. — Whole on the spot is about 90s. per cwt., in bond, and for forward delivery, 80s., c.i.f. Broken 67s. 6d., in bond, and 62s. 6d., c.i.f.

CHAMOMILE.—Belgian flowers are 5s. per lb. on the spot.

CHERRY BARK. — Scarce. Thin natural is from 1s. 10d. per lb., duty paid, and rossed, 2s. 3d., on the spot.

CHILLIES.—Mombasa are 300s. per cwt. on the spot, and 275s., c.i.f. Zanzibar are 280s., c.i.f. Sierra Leone not offering.

CINCHONA. — Parcels of British East African chips and broken quills are offered from 1s. 9d. and 1s. 11d. per lb. respectively, as to test.

CINNAMON.—Ceylon for shipment (c.i.f.), per lb.; OOOO, 3s. 9d.; OOO, 3s. 8d.; OO, 3s. 7d.; O, 3s. 6d.; firsts, 2s. 7d.; seconds, 2s. 6d.; thirds, 2s. 5¼d.; quillings, 1s. 8¼d.; featherings, 1s. 1d.; chips, 5¾d. to 6¼d.

CLOVES.—Quiet. Zanzibar on the spot are 4s. 7½d. per lb.; prompt shipment. 4s. 2½d., c.i.f.

COCHINEAL. — Black brilliant is 10s. 3d. per lb.; and Peruvian silver-grey, 7s.

COLCHICUM.—Corms on spot are offering at 2s. 3d. per lb., and seeds, 6s.

COLOCYNTH.—Good quality pulp on the spot is scarce. Price indicated for small parcel to arrive is about 2s. per lb., duty paid.

ERGOT. — Quiet. Portuguese for prompt shipment is 16s. per lb., c.i.f. nominal. Spot material offered at 17s.

GALANGAL.—For spot material of good quality 90s. per cwt. is asked.

GENTIAN. — French natural on spot is 100s. per cwt., and from 92s. 6d. to 95s., c.i.f.; sliced, 115s. spot.

GINGER.—Firm. African on the spot is 140s., per cwt. with afloat at 130s., c.i.f., and new-crop for shipment, 160s. Jamaican No. 3 is 220s. on the spot with new-crop from origin offered at 218s. 6d.

GUM ACACIA. — Kordofan cleaned sorts on the spot are quoted higher at 125s. per cwt. April-May shipment, 118s., c.i.f.

HENNA.—Firm. Indian green leaves, old crop, are offered about 90s. per cwt. on the spot; shipment not offering. Sudanese are 100s., spot.

HONEY.—Australian light-amber is offered on the spot at 106s. to 112s. per cwt.; medium-amber 95s. to 100s. Argentine is from 115s. to 120s. and Jamaican, 120s. to 130s.

HYDRASTIS.—Root is 18s. per lb., on the spot.

IPECACUANHA.—Spot: Colombian, 50s. per lb.; Nicaraguan, 55s. Shipment: Colombian. 46s., c.i.f. (May); Nicaraguan and Costa Rican, no offers.

KARAYA. — No. 1 gum on the spot is quoted at 200s. per cwt.; No. 2 is 140s.

KOLA NUTS.—African halves are available on the spot at 5½d. per lb.

LOBELIA.—Herb is scarce on the spot. Nominal value is 3s. 6d. per lb.

MACE. — West Indian pale blade is 8s. 6d. per lb.; for shipment, 7s. 10d., c.i.f.

MENTHOL. — Spot. Chinese is about 30s. per lb., duty paid, and for shipment, 28s., c.i.f.

MERCURY.—Nominal spot value is from £69 to £70 per flask (76 lb.), ex warehouse.

MYRRH.—Aden selected sorts are quoted at £14 10s. per cwt. on the spot. Siftings are from £7 to £8.

NUTMEGS. — West Indian 80's quoted at 2s. 9d. per lb. on the spot and 2s. 5½d., c.i.f., for shipment.

ORANGE PEEL.—Bitter quarters. Spanish quoted at 1s. 10d. and West Indian at 1s. 1d. per lb. on the spot. Bitter ribbon 1s. 2d.

ORRIS ROOT.—Offers of Florentine good sorts are scarce with prices nominal. Shipment quotations are about 200s. per cwt. c.i.f.

PAPAIN.—Spot values for East African grade one are 24s. per lb., and grade two, 21s. Ceylon white for shipment is 23s., c.i.f.

PEPPER.—Weak. White Sarawak is down to 6s. per lb., spot, with afloat parcels at 5s. 11d., c.i.f. Black Sarawak, special is 5s. 6d. per lb., spot; afloat, 5s. 1½d., c.i.f. Black Malabar, 650s. per cwt. spot.

PIMENTO. — Jamaican is dearer on the spot at 4s. 6d. per lb.

RAUWOLFIA (SERPENTINA).—Spot material scarce with prices nominally 10s. per lb.

SEEDS.—Current rates (per cwt.) are:—ANISE.—Cyprian, 167s. 6d.; Bulgarian, 170s., duty paid. CARAWAY. — Dutch steadier at 155s., duty paid with business passing at 130s., c.i.f., London. CELERY. —Indian is in poor demand with sellers at 210s., spot London. CORIANDER.—Market on spot remains steady with sellers of Moroccan at 60s., duty paid (55s., in bond); English, 75s. Shipment: Moroccan dearer with shippers now asking 48s. 6d. to 49s. 6d., c.i.f., London. CUMIN.—Market quiet. Spot Cyprian, 127s. 6d.; Maltese, 130s.; Moroccan, 127s. 6d., duty paid. Shipment, Cyprian, 112s. 6d.; Moroccan, slightly dearer at 107s. 6d. DILL.—Indian unchanged at 90s., spot and 70s., c.i.f., London. FENNEL.—Sellers on spot are now quoting 95s. to 110s. according to quality. FENUGREEK.—Moroccan is unchanged at 48s. 6d., duty paid, spot London only. MUSTARD.—English is dearer because of Dutch and German buying with 60s. to 75s. now quoted according to quality.

SENNA.—*Tinnevelly* LEAVES, 1953 wet-crop, (per lb.) prime No. 1, 1s. 1d.; prime No. 2, 11d.; prime No. 3, 8d.; f.a.q.. No. 3, 7d.; ungraded, 5½d.; PODS, special green, 1s. 10d. to 2s. 1d.; No. 1 hand-picked, 1s. 5d.; f.a.q., 6d. *Alexandrian* leaves and siftings quoted 1s., c.i.f.; manufacturing pods, 1s. 10d., spot, best qualities unobtainable.

SERPENTARIA. — Root is offered at 37s. per lb. on the spot.

SQUILL.—Italian white on the spot is 70s. per cwt. nominal. No. 2 is about 60s., no offers of white from origin.

STRAMONIUM.—Indian LEAVES are 5½d. per lb., spot and European, 97s. 6d. per cwt.

STROPHANTHUS.—*Kombé*, 100 per cent. is about 9s. per lb., on the spot, and *Gratus*, 16s.

STYRAX.—Spot is 5s. 9d. per lb., duty paid.

TAMARINDS. — Supplies of West Indian are offered at 50s. per cwt., duty paid.

TONKA BEANS.—Frosted Para on the spot are scarce at 6s. 6d. per lb. Shipment offers withdrawn.

TRAGACANTH.—No. 1 ribbon on the spot is £105 per cwt.; No. 2, £85; No. 3, £65.

TURMERIC.—Spot Rajapore, is 125s. per cwt. nominal; Madras finger not offering. New-crop Madras for March-April-May shipment is quoted at 97s. 6d., c.i.f.

UVA URSI.—Spot offers are about 85s. per cwt.

VALERIAN.—Indian is 145s. per cwt. on the spot and from 130s. to 145s., c.i.f. Belgian, 185s., spot.

VANILLIN. — Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WAXES.—BEES'.—Dar-es-Salaam. Spot, about 490s. per cwt. April-May shipment, 472s. 6d., c.i.f. Sudanese and Abyssinian, spot 475s., and shipment, 420s., c.i.f. Benguella, 475s., duty paid and 420s., c.i.f. CANDELILLA.—Spot is unchanged at 635s. per cwt. CARNAUBA.—Prime yellow on the spot is 1,010s. per cwt.; shipment, 980s., c.i.f.; fatty grey is 695s. on the spot; shipment, 670s., c.i.f. SPERMACETI.—Case lots are about 1s. 9d. per lb.

Essential and Expressed Oils

ALMOND.—B.P. is from 6s. to 7s. 6d. per lb., as to quantity.

AMBER.—Rectified on the spot is quoted at from 1s. 6d. per lb.

ANISE.—Spot supplies are 9s. 3d. per lb., with shipment offers around 9s., c.i.f.

BAY.—W. Indian is 8s. 6d. to 9s. per lb. on the spot.

BERGAMOT.—Spot value is about 80s. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

CADE.—Spanish is about 2s. 3d. per lb. on the spot for 1-cwt. lots.

CAJUPUT. — Spot supplies are 15s. 6d. per lb.

CANANGA. — Supplies to come forward are quoted at from 60s. per lb., c.i.f. Spot is from 62s. 6d. per lb.

CARAWAY. — English-distilled is offered at 45s.; imported oils are from 21s. 6d. per lb., early shipment.

CARDAMOM.—Price per lb. is from 370s. for English-distilled and 280s. for imported.

CASCARILLA.—Imported is from 320s. per lb.

CEDARWOOD. — Spot quotations for African are from 5s. per lb.

CHAMOMILE. — English-distilled is from 320s. per lb.

CHENOPODIUM.—1-cwt. lots are 47s. 6d. per lb.

CITRONELLA. — Quiet. Prices (per lb.) are:—Ceylon. spot, 3s. 9d. per lb.; shipment, 4s., c.i.f.; Java, 6s., duty paid; shipment, 5s. 3d., c.i.f.; Formosa, 5s. 9d., duty paid, and 5s. 3d., c.i.f.

CORIANDER. — Russian-seed oil is from 130s. per lb., and Dutch at 115s.

CUBEB.—English-distilled is 55s. per lb. and imported, 47s. 6d.

CUMIN. — Quotations for English-distilled oil are about 75s. per lb. and imported, 60s.

DILL. — B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are offered at from 32s. 6d. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 4s. 10½d. per lb., and 80 to 85 per cent.. 5s. 3d. Spanish, 70 to 75 per cent., 4s. 6d., duty paid.

FENNEL.—Spanish sweet on the spot is quoted from 9s. 6d. per lb.

GINGER. — English-distilled oil is from 120s. per lb. Imported oils are available at from 80s. to 90s. per lb.

GRAPEFRUIT.—Australian is 14s. 6d. per lb. spot; Californian, cold pressed, 20s., c.i.f., subject to licence.

HYDNOCARPUS.—Spot is scarce at 2s. 2d. per lb.

LAVENDER. — French, 40-42 per cent. linalol on the spot is from 33s. per lb.

LAVENDER SPIKE. — Spanish is about 11s. 6d. per lb.

LEMON.—B.P. (4 per cent. citral) on the spot is 38s. to 39s. per lb. Californian, 35s. 3d. to 52s. 3d., c.i.f., as to quality, subject to licence.

LEMONGRASS.—East Indian is slightly firmer at 9s. 4½d. per lb. on the spot and 9s. 6d.. c.i.f., for shipment.

ORANGE.—Spot offers for sweet vary between 8s. and 10s. 6d. per lb. as to quality. West African, new crop is quoted at 8s. 9d., c.i.f. Californian sweet, 6s., c.i.f., and cold-pressed, U.S.P., 9s. 3d., c.i.f., subject to licence.

PEPPERMINT. — *Arvensis:* Chinese is about 18s. 6d. per lb., spot, and 17s. 6d., c.i.f., March-April shipment: Brazilian (45 per cent.), 16s. spot, forward, 15s. 6d., c.i.f. Italian "Mitcham" type oil is from 47s. 6d. to 52s. 6d. per lb. on the spot.

AMPHETAMINE INHALER SURVEY

IN his report for the fourth quarter of 1953 the Birmingham city analyst includes a survey of a total of sixty-four pocket amphetamine inhalers of five brands. The first brand to be tested was described as the most popular one and the analyst felt that the manufacturers were to be congratulated on their standard of accuracy with regard to the amphetamine content (deficiencies were less than 2 per cent.) obtained in a difficult manufacturing operation. Three other brands appeared to be imitations of the first and showed deficiencies of 10-22 per cent. and one of 73 per cent. Of the fifth brand the analyst reports that every one of thirteen samples was deficient by amounts varying from 31 to 90 per cent. When the manufacturers of that brand were asked for an explanation they said that the cause of the deficiencies was probably evaporation and suggested that the samples represented old stock. At a meeting between the analyst and the company's superintendent pharmacist it was found that the most recent sample had been made in October 1952, two others in 1951 and several some time before that. The amphetamine solution was made up in small amounts for the manufacture of each batch of inhalers and it was not likely that the composition of the solution varied; if carelessness in manufacture was the reason for the error some samples showing a surplus of amphetamine could be expected. Test deliveries from the filling unit were of satisfactory accuracy. The company agreed to recall inhalers issued before 1953.

The analyst comments that the case appeared to be one in which certain pharmacists had retained stocks of a preparation containing a volatile active ingredient "beyond the time when the stock should have been returned to the suppliers or destroyed."

Also analysed were a number of privately submitted beauty aids. An astringent lotion was found to consist of a layer of light mineral oil surmounted by one of industrial spirit. The only other ingredients were red dye and perfume. The analyst priced the ingredients at fourpence, and said that the price to the purchaser was "merely a measure of his gullibility and bore no relation to the astringent value of the lotion." A bust improver in a collapsible tube was found (as claimed) to contain dicthylstilbœstrol. The analyst commented that the substance should not be used except under medical supervision, as some of its effects might be unwelcome. He asserted also that the cost of the preparation was out of all proportion to the value of its ingredients. An "expensive" article sold as an "eyelash grower" consisted of yellow petroleum jelly.

A slimming preparation comprised approximately equal parts of Epsom and Glauber's salts and sodium chloride, put up in paper packets with instructions to dissolve the powder in a hot bath and, after washing with soap in the usual way, lie in the solution for at least fifteen minutes. That procedure repeated for six weeks was alleged to remove superfluous fat. A pamphlet supplied with the preparation gave instructions on diet. The analyst commented that the dieting might have some effect, as it recommended avoiding certain foods known to be fat-forming, but that was given less prominence than the reference to the powder. "One could not avoid having the conviction that much better results would be obtained by drinking the solution instead of bathing in it." A smokers' cure consisted of a plastic tube resembling a cigarette holder and containing a small quantity of a mixture of menthol and sawdust. "This ingenious substitute for the exercise of will power was sold at 12s. 6d. and probably cost about sixpence."

NORTHERN IRELAND HEALTH BOARD

ON the grounds that public funds had been misappropriated the Northern Ireland General Health Services Board, at a meeting in Belfast recently, decided to refer to the attorney-general a case in which a patient is alleged to have altered a prescription for pethidine. It was stated that the prescription was received by a chemist who noticed that the alteration had not been initialled by the doctor. The patient admitted having made it. The matter had been referred to the attorney-general by the Dangerous Drugs inspector but no prosecution under the D.D. Acts had been ordered.

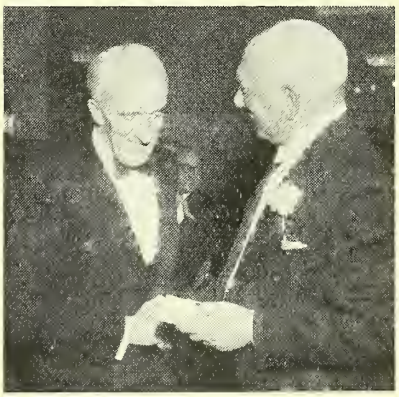
The Board, on the recommendation of the Services Committee, decided to send a strongly-worded letter to a company of chemists found to have circularised a large number of persons known to them to be suffering from hernia, drawing their attention to a new form of truss which it was stated could only be supplied if the type was specified on the prescription form. The Board's letter informed the chemists that the circular was undesirable as being likely to encourage the patient to attempt to influence his doctor's prescribing and that the practice should not be repeated. The Board agreed to a suggestion from Mr. H. W. Gamble that the letter should also point out that the firm's conduct was prejudicial to the efficiency of the Service.

The executive committee considered a statement by a doctor that a letter to a local chemist from the English agents for an expensive proprietary preparation had been shown to him by a patient in an endeavour to influence him to prescribe it. The chemist had expressed regrets at what had occurred but claimed that he had written at the patient's request for particulars of the preparation and had handed the reply unopened to the patient, who happened to be present when it was delivered. The committee agreed that the chemist should be reminded of the importance of avoiding any encouragement to patients to attempt to influence their doctors' prescribing.

The Committee decided that a letter should be sent to all dispensing doctors remunerated by drug capitation fee reminding them to collect the prescription charges each time they supplied drugs or appliances to one of their patients. Evidence showed that not all charges were being collected.

LONDON GOLFERS DINE AND DANCE

WELCOMING the guests at the annual dinner and dance of the London Chemists' Golfing Society on March 4, "for the third time running but for the last time" MR. L. J. MORSON (president) remarked that next year instead of a Sassenach, a Scotsman would be in the chair: Mr. W. M. Ballantyne. The honour was well deserved because Mr. Ballantyne had been secretary of the Society for twenty-five years and had done a tremendous amount of work for it. Dr. W. E. Swanston, who had led the Society through Coronation year—and very successfully—was taking on the onerous office of captain for a second year. Mr. John D. Cullen (captain-elect of the Wilderness, Kent, golf club) proposed "The London Chemists' Golfing Society," "a robust child," he said, "of some forty-five years." DR. W. E. SWANSTON (captain) responded, paying tribute to the retiring president. On behalf of the members of the Society he presented Mr. Morson with a "handsome souvenir" (a shooting-stick). During the evening Mr. Morson presented the following prizes and trophies:—



Mr. W. M. Ballantyne (left) receiving the Arthur H. Cox prize from Mr. L. J. Morson

Apollinaris prize, H. E. James, G. F. Morson; Aspro rosebowl, H. R. Dawson; Butler & Crispe prize, T. T. Johnson; Burgoyne cup, F. W. Dunnett; British & Colonial cup, T. W. Griffiths; Captain's prize, R. C. W. Poole, A. H. Calcutt; Coronation cup, Jubilee vase and McClive Young prize, A. J. Campbell; Arthur H. Cox prize, W. M. Ballantyne; D. & W. Gibbs prize, J. Usher; Harker Stagg prize, W. E. Roberts; Hepburn Shield, W. S. Hutcheon; Kerfoot trophy, A. H. Newcombe; Leichner & Yardley cups, W. A. C. Attwood; Mentholatum prize, R. C. W. Poole; Morny prize, J. A. Evans; President's prize, and President's putter, J. A. Mackenzie; Professor Flint and Thomson cups, J. Catto; R. J. Reuter (4711) prize, C. H. Maile; Sanger cup, B. F. Tisdall; Society prize, H. R. Camish.

TRADE MARKS

(Applications advertised before registration)

From the "Trade Marks Journal," February 24

For all goods (5)
Device of zig-zag pattern, 722,195, by Lilje-Holmens Stearinfabriks Aktiebolag, Stockholm, Sweden. BLANDETS, 723,846, by Sharp & Dohme, Ltd., Hoddesdon, Herts.

For malt and vitamins for use in medicine and pharmacy (5)
MOLAMALT, 723,855, by Bickiepegs, Ltd., Welwyn Garden City, Herts.

For pharmaceutical and sanitary substances, deodorants, disinfectants, germicidal preparations, insecticides, and air-purifying chemical preparations (5)
ETTE, SANETTE, 725,156-57, by Ozonol Laboratories (1930), Ltd., London, N.1.

For deodorants for use in the manufacture of soaps and cosmetics (5)
ANOBIAL, 725,534, by Firmenich & Co., Successors to S. A. M. Naef & Cie, Geneva, Switzerland.

For disinfectants, antiseptics, germicides, insecticides, fungicides (5)
DECIMAX, 725,555, by Riley's Chemicals & Colours, Ltd., Accrington, Lancs.

For medicated preparations for the skin (5)
ESTRABELLA, 725,972, by Edwards Harlene, Ltd., London, W.1.

For nebulisers (atomisers) for medical and surgical purposes (10)
ESADOL, 724,398, by Southon Laboratories, Ltd., London, S.W.15.

From the "Trade Marks Journal," March 3

For agricultural and horticultural chemicals (1)
FLORICIDE, 724,464, by Boots Pure Drug Co., Ltd., Nottingham.

For face powder and rouge (3)
HOUBIGANT, 713,909, by Les Industries de Luxe, Paris, France.

For perfumes (3)
PATRICIA, 718,419, by Junger & Gebhardt A.G., Cologne, Germany. CINQ A SEPT, 724,726, by Maria Hornes, Ltd., London, W.1.

For non-medicated toilet preparations (3)
BIOKOSMA, 724,397, by Biokosma A.G., Saint Gall, Switzerland.

For preparations for the hair (3)
VITON, 724,663, by E. A. Holland Pty., Ltd., Sydney, Australia.

For shaving soap (3)
SHAVALLO, 725,772, by John Knight, Ltd., London, E.16.

For disinfectants (5)
AIR-RAID, 719,835, by Stanley Z. Jackson (Chemists), Ltd., Castleford, Yorks.

For anæsthetics (5)
UNACAINE, 719,951, by Novocol Chemical Manufacturing Co. of Canada, Ltd., Toronto, Canada.

For pharmaceutical preparations (5)
DUMEX, 720,510, by Aktieselskabet det Ostasiatiske Kompagni, Copenhagen, Denmark. LEDERPLEX, 721,847, by American Cyanamid Co., New York, U.S.A. PACIDONE, 723,683, by Wallace Manufacturing Chemists, Ltd., London, N.W.3. CORYZOMED, 724,838, by Medo-Chemicals, Ltd., London, N.1. SOLASP, PROAC, 725,487-898, by Gee Cross Laboratories, Ltd., Hyde, Ches. FYDALIN, 725,514, by Boots Pure Drug Co., Ltd., Nottingham. AQUASTRYN, 725,748, by E. R. Squibb & Sons, Ltd., London, W.1. PABAVITE, 725,841, by Vitamins, Ltd., London, W.6.

For veterinary preparations (5)
BARUSK, 720,971, by Wardleigh Products, Ltd., Brighton, Sussex.

For weedkillers and fungicides (5)
TARDENE, 723,983, by Pest Control, Ltd., Bourn, Cambs.

For insulin and preparations containing insulin (5)
FRIXULIN, 725,971, by Edwards Harlene, Ltd., London, W.1.

For brushes, combs and sponges (21)
NELL GWYNNE, B724,600, by Hickson Lloyd & King, Ltd., Manchester.

For preparations of vitamins for addition to flour (5)
VITAMIX, 720,216, by Vitamins, Ltd., London, W.6.

For dermatological preparations containing coal tar and chlor-hydroxy-quinolin (5)
QUINORTAR, 720,578, by E. R. Squibb & Sons, Ltd., London, W.1.

For all goods (5)
NALGOL, 725,220, by Hough, Hoseason & Co., Ltd., Manchester. ETHNOJECT, 725,977, by Allen & Hanburys, Ltd., London, E.2.

For surgical and veterinary instruments and apparatus (10)
MILWARDS SILVER SEAL VIM, 717,289, by Shrimpton & Fletcher, Ltd., Birmingham.

For hot-water bottles (21)
SUBA-SCREW, 725,574, by William Freeman & Co., Ltd., Barnsley, Yorks.

From the "Trade Marks Journal," March 10

For industrial chemicals (1)
MANUTEX, 722,154, by Alginate Industries, Ltd., London, W.C.2.

For agricultural and horticultural chemicals and fertilisers (1)
KAYNITRO, B724,404, by Imperial Chemical Industries, Ltd., London, S.W.1.

For thorium compounds (1)
THORMEL, 725,219, by Magnesium Elektron, Ltd., Manchester.

For non-medicated toilet preparations (3)
FLOIDAM, 714,585, by Haugron Cientifical S.A., Barcelona, Spain. Device of sailing ship, 723,518, by Shulton Incorporated, New York. VENT VERT, 726,201, by Pierre Balmain, Paris, France.

For cosmetic powder cases (3)
CONCERTO, 726,212, by Kigu, Ltd., London, N.W.10.

For all goods (3)
GAYNET, 726,319, by Genatosan, Ltd., Loughborough, Leics.

For anæsthetics for intravenous injection (5)
ANESITAL, 719,597, by Parke, Davis & Co., Detroit, U.S.A.

For borax and boric acid (5)
BUFFALO BRAND, 723,833, by Clifford Christopherson & Co., Ltd., London, W.1.

For medicated throat lozenges (5)
BIOKETS, 726,314, by Rexall Drug Co., Ltd., Nottingham.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Tuesday, March 30

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, High Street, Dartford, at 8 p.m. Mr. J. S. Wellsman on "The Agfacolor Processes."

ROYAL SOCIETY OF ARTS, 6 John Adam Street, London, W.C.2, at 5.15 p.m. Sir Arthur Porritt on "The Experiment of a State Medical Service in New Zealand."

WALSALL BRANCH, PHARMACEUTICAL SOCIETY, Tudor room, Pattison's café, Walsall, at 7.30 p.m. Mr. C. C. Stevens (assistant secretary, Imperial Chemical (Pharmaceuticals), Ltd.) on "The Pharmacist and Common Law."

Wednesday, March 31

DUDLEY, NORTH STAFFS, STAFFS, WALSALL and WOLVERHAMPTON BRANCHES, PHARMACEUTICAL SOCIETY, Swan Hotel, Goalgate, Stafford, at 7.45 p.m. Regional meeting to hear candidates for election to the Society's Council.

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Imperial Hotel, Barnstaple, at 7.30 p.m. Mr. W. C. Ibbett (provincial horticultural officer, Ministry of Agriculture and Fisheries) on "Recent Trends in the Use of Insecticides" and "Flower Growing in the South-west."

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Rayners Hotel, Rayners Lane, Middlesex, at 7.30 p.m. Social evening and informal dance. Ticket 7s. 6d. from Miss H. I. Trapp, 91 Woodlands, North Harrow.

LIVERPOOL CHEMISTS' ASSOCIATION and BRANCH, PHARMACEUTICAL SOCIETY, Adelphi Hotel, Liverpool, at 6.30 for 7 p.m. Annual dinner dance. Ticket 27s. 6d. from Mr. H. W. Cottle, 12 Beacon Lane, Everton, Liverpool, 5.

NOTTINGHAM BRANCHES, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS and GUILD OF PUBLIC PHARMACISTS, Children's Hospital, Nottingham, at 7 p.m. Joint meeting. Mr. P. J. L. Bengard on "Perfume, its Aims and its Uses."

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Blind Institution hall, Mappin Street, Sheffield, at 7.30 p.m. Informal dance. Ticket, 3s. 6d., from Branch officials.

Thursday, April 1

MANCHESTER PHARMACEUTICAL ASSOCIATION and BRANCH, council chamber, Houldsworth Hall, Manchester, at 7.45 p.m. Annual meeting. Discussion of resolutions for the Branch Representatives' meeting in London on May 20. Election of the Association and Branch executives.

SOMERSET BRANCHES, PHARMACEUTICAL SOCIETY, and NATIONAL PHARMACEUTICAL UNION, County Hotel, Taunton. At 4 p.m., N.P.U. Branch annual meeting. At 5 p.m., tea for members of both branches. At 6 p.m., Pharmaceutical Society Branch annual meeting. At 7 p.m., combined meeting, Mr. A. Aldington (a member of the N.P.U. Executive and immediate past-president, Photographic Dealers' Association) on "The Pharmacists' Birthright—Photo Dealing for the Chemist."

Friday, April 2

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, lecture hall, Whipps Cross Hospital, Leytonstone, London, E.11, at 8.30 p.m. Joint meeting with the South-west Essex division of the British Medical Association. Dr. Andrew Wilson (professor of pharmacology, Liverpool University) on "Peculiar Prescriptions."

ENFIELD BRANCH, PHARMACEUTICAL SOCIETY, lecture hall, Gas Offices, Sydney Road, Enfield, at 7.30 p.m. The Marquis of Ely on "Exposing for Agfacolor" (lecture and demonstration).

EXETER BRANCH, PHARMACEUTICAL SOCIETY, assembly rooms, South Street, Exeter, at 7.30 p.m. Mr. W. C. Ibbett (provincial horticultural officer, Ministry of Agriculture and Fisheries) on "Recent Trends in the Use of Insecticides" and "Flower Growing in the South-west."

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, chemistry lecture theatre, King's College, Strand, London, W.C.2, at 7 p.m. Dr. D. S. Morris (Parke, Davis & Co., Ltd.) on "Chloramphenicol."

MANCHESTER BRANCH, GUILD OF PUBLIC PHARMACISTS, Whitworth room, Engineers Club, Albert Square, Manchester, at 7.30 p.m. Dr. J. M. Rowson (curator of the Pharmaceutical Society's museum) on "Some Recent Researches on Vegetable Drugs."

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Y.W.C.A. room, 18 Slater Street, Liverpool, at 7.15 for 7.45 p.m. Mr. E. A. Hebron, M.P.S., on "A Visit to Holland" (illustrated talk).

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION and BRANCHES, PHARMACEUTICAL SOCIETY, and NATIONAL PHARMACEUTICAL UNION, Town Hall, Lambeth, London, S.W.2, at 7.45 p.m. Mr. C. L. Clarke (Kodak, Ltd.) on "It's My Hobby Too" (illustrated talk).

Saturday, April 3

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Annual meeting, followed by a meeting of the national council of the Association.

C. & D. WEEKLY LIST OF PRICE CHANGES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *=Tax 25 per cent; †=Tax 75 per cent.

ABBOTT LABORATORIES, LTD. (from March 29)

	I.R.P.	
Abbocillin 800 M		
1-dose	5 9	R
5-dose	18 9	R

ALLEN & HANBURYS, LTD. (from March 29)

	Each		
Procaine penicillin oily injection			
3-mega unit vial	6 4	9 6	R

BOOTS PURE DRUG CO., LTD. (from March 29)

Penicillin G crystalline, sodium and potassium salts: vial 0·1 mega unit	1 0	R
0·2 mega unit	1 1½	R
0·5 mega unit	1 9	R
1·0 mega unit	2 7½	R
5·0 mega units	10 1½	R
10·0 mega units	18 3	R
Pro-stabillin oily, 0·3 mega unit per c.c., 10-c.c. vial	9 6	R
Pro-stabillin, 3 mega unit in 10-c.c. vial	8 3	R
Bi-stabillin, vial containing 0·3 mega unit procaine penicillin G with 0·1 mega unit crystalline sodium penicillin G	1 9	R
box of 10	17 6	R
vial containing 0·9 mega unit procaine penicillin G with 0·3 mega unit of crystalline sodium penicillin G	3 9	R
box of 10	37 6	R
Viules of procaine penicillin G:		
Pro-stabillin oily, 0·3 mega unit, box of 6	10 3	R
box of 100	162 6	R
0·6 mega unit, box of 6	15 6	R
box of 100	250 0	R
0·9 mega unit, box of 6	20 0	R
box of 100	325 0	R
Pro-stabillin A.S. 0·3 mega unit, box of 6	10 3	R
box of 100	162 6	R
0·6 mega unit, box of 6	15 6	R
box of 100	250 0	R

THE DISTILLERS CO. (BIOCHEMICALS), LTD. (from March 29)

Distivit B_{12} ampoules,		
20 microgm., 5	2 1½	R
50 microgm., 5	4 9	R
100 microgm., 5	4 3	R

THE DISTILLERS CO. (BIOCHEMICALS), LTD., on behalf of ALLEN & HANBURYS, LTD.; THE BRITISH DRUG HOUSES, LTD.; BURROUGHS WELLCOME & CO.; EVANS MEDICAL SUPPLIES, LTD.; IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD.; and PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD. (from March 29)

Penicillin G, sodium and potassium salt (buffered)		
vial 0·1 mega unit	1 0	R
box of 5	5 0	R
0·2 mega unit	1 1½	R
box of 5	5 7½	R
0·5 mega unit	1 9	R
box of 5	8 9	R
1 mega unit	2 7½	R
box of 5	13 1½	R
Distaquaine G,		
vial 0·3 mega unit	1 7½	R
box of 5	8 1½	R
0·9 mega unit	2 10½	R
box of 5	14 4½	R
3 mega units	8 3	R
box of 10	82 6	R
Distaquaine fortified,		
vial 0·4 mega unit	1 9	R
box of 5	8 9	R
1·2 mega units	3 9	R
box of 5	18 9	R
4 mega units	10 6	R
box of 10	105 0	R
Distaquaine suspension,		
10-ml vial (3 mega units)	9 6	R
box of 10	95 0	R

Applications from the retail and wholesale trade for credit on stocks held at closing time on March 27 should be made within fourteen days to the supplier by whom the goods were invoiced quoting batch numbers.

GLAXO LABORATORIES, LTD. (from March 29)

	Each		
Benapen, 300,000 units per c.c.,			
10 × 1 c.c. doses	7 4	11 0	R
Crystapen, 500,000 units	11 8	17 6	R
1 mega unit	17 6	26 3	R
2 mega units	2 10	4 3	R
5 mega units	6 9	10 1½	R
Estopen, 500,000-unit vials, 10	16 8	25 0	R
Seclopen, 400,000 units per 1-c.c. dose, single dose vials, 10	11 8	17 6	R
5-dose vial	3 8	5 6	R
Mylipen, 300,000 units per 1-c.c. dose, 10-dose vial	6 4	9 6	R
Prolopen 400,000 units per 1-c.c. dose, 10-dose vial	8 1	12 1½	R
Procaine penicillin G oily injection, 300,000 units per 1-c.c. dose, 10-dose vial	6 4	9 6	R
Estomycin, 500,000 units penicillin with 1 gm. streptomycin, box of 10	40 0	60 0	R
100,000 units penicillin with 0·2 gm. streptomycin, box of 10 vials	12 6	18 9	R
Veterinary Mylipen, 300,000 units per c.c., 30-c.c. vial	17 4	26 0	R
Cytamen ampoules	Doz.		
20, 6 × 1 c.c.	20 3	2 3	R
50, 6 × 1 c.c.	27 0	3 0	R
100, 6 × 1 c.c.	40 6	4 6	R
250, 6 × 1 c.c.	74 3	8 3	R
	Each		
1,000, 3 × 1 c.c.	10 10½	14 6	R
	Doz.		
Cytacon tablets,			
10 microgm., 50	31 6	3 6	R
	Each		
500	18 9	25 0	R
	Doz.		
50 microgm., 25	63 0	7 0	R
	Each		
250	37 6	50 0	R
	Doz.		
liquid, 25 microgm. per fl. dr., 6 fl. oz.	63 0	7 0	R
Veterinary Cytamen,			
100, 10-c.c. vial	54 0	6 0	R
250, 10-c.c. vial	112 6	12 6	R

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD.

Crystalline penicillin G, sodium and potassium salts, 5 mega units	10 1½	R
10 mega units	18 3	R
Avloprocil oily injection, 300,000 units per c.c. with aluminium stearate, 10 c.c.	9 6	R
1 c.c., 10	14 0	R
Avloprocil A.S. aqueous suspension, 300,000 units per c.c., 10 c.c.	9 6	R
Avloprocil N.A.,		
0·4 mega unit	1 9	R
4·0 mega units	10 6	R

ELI LILLY & CO., LTD. (from March 29)

Duracillin A.S.,		
1-c.c. ampoule	2 7½	R
10-c.c. ampoule	9 6	R

Applications from retail pharmacists for credit on stocks held at closing time on March 27 should quote batch numbers and should be made within fourteen days to the company.

SMITH & NEPHEW, LTD. (from April 1)

Nivea shaving cream*	18 10	2 9 A

WHITE LABORATORIES, LTD. (from April 1)

Feen-a-mint*, 6	5 8	9	A
16	13 0	1 9	A
Aspergum*, packet of 16	13 0	1 9	A
bottle of 36	26 0	3 6	A
bottle of 250	168 0	18 0	A
(tax-free)			

P.A.T.A. PROTECTED LIST

(Prices notified this week by the Proprietary Articles Trade Association.)

HERTS PHARMACEUTICALS, LTD. (from April 1)

	Doz.		
No. 280 Nivea shaving cream*	18 10	2 9	A

SMITH, KLINE & FRENCH INTERNATIONAL CO. (Agents:—Menley & James, Ltd.) from March 9 to chemists, April 1 to public)

Eskacillin 50, 2 fl. oz.	67 6	7 6	R
100, 2 fl. oz.	96 9	10 9	R

NEW PRODUCTS AND PACKS

ADVANCE INDUSTRIES, LTD.

Dip	1 9
Dispel	2 0
refill	1 6

BIOREX LABORATORIES, LTD.

Kendale cream No. 5* 23 0	3 4½
1-lb. dispensing pack	11 6

BURROUGHS WELLCOME & CO.

Aerosporin solution, 10-c.c. dropper bottle	9 6

CUXSON, GERRARD & CO., LTD.

Healo* 11 0	1 7
26 0	3 9

THE DISTILLERS CO. (BIOCHEMICALS), LTD. (from March 29)

Distivit B_{12}, 1,000 microgm. ampoules, 5	27 3

D. & W. GIBBS, LTD.

Brushless shaving cream*, tube	2 4½

GLAXO LABORATORIES, LTD.

	Each	
Cytacon liquid,		
80-oz. winchester	52 6	70 0
Pyelosil ampoules,	Doz.	
42·5 per cent., 20 c.c.	81 0	9 0
	Each	
5 × 20 c.c.	33 9	45 0

DOROTHY GRAY

Wedgwood perfume†	147 0
Vase perfume†	78 9
Wedgwood purse perfume†	15 0

ELI LILLY & CO., LTD. (from April 1)

Ilotycin pædiatric suspension granules	27 6
tablets, bottle of 100	217 6

E. WALKER & CO. (ELECTRICAL ENGINEERS), LTD.

Thermasseur (tax 50 per cent.)	99 6

PRINT AND PUBLICITY

Advertising Campaigns

ARVIN ELECTRIC, LTD., Fernbrook Avenue, Southend-on-Sea: Electric shavers in *Radio Times, Reveille, Week-end Mail, Eagle, Boy's Own, Reader's Digest* and national and Sunday Press.

BRITISH PRODUCTS SANMEX CO., LTD., Pharmaceutical Department, Sanmex Chemical Works, Rutherglen, Scotland: Dispel germicide.

CAMILATONE, LTD., Edgware Road, London, N.W.9: Tonrinz in women's Press.

DAE HEALTH LABORATORIES, LTD., 17 Berners Street, London, W.1: Valderma in national Press.

EUCRYL, LTD., 7-9 Oakley Road, Southampton: Eucryl tooth-powder in *Daily Mirror, Daily Mail, Radio Times, Daily Herald* and *News Chronicle*.

EVAN WILLIAMS CO., LTD., Aintree Road, Perivale, Middlesex: Liquid lanolin shampoo in national Press.

GLENSIDE (LONDON), LTD., 8 Oxford Circus Avenue, Oxford Street, London, W.1: Yales elastic nylon stockings in *Vogue*.

JOHN MORRELL & CO., LTD., Victoria Street, Liverpool: Red Heart dog and cat foods in *Radio Times, Dog World, Our Dogs, Kennel Gazette, Our Cats, Pets and Aquaria, Cats and Kittens*; illustrated weeklies and women's Press. Free offer of picture-cards of cats.

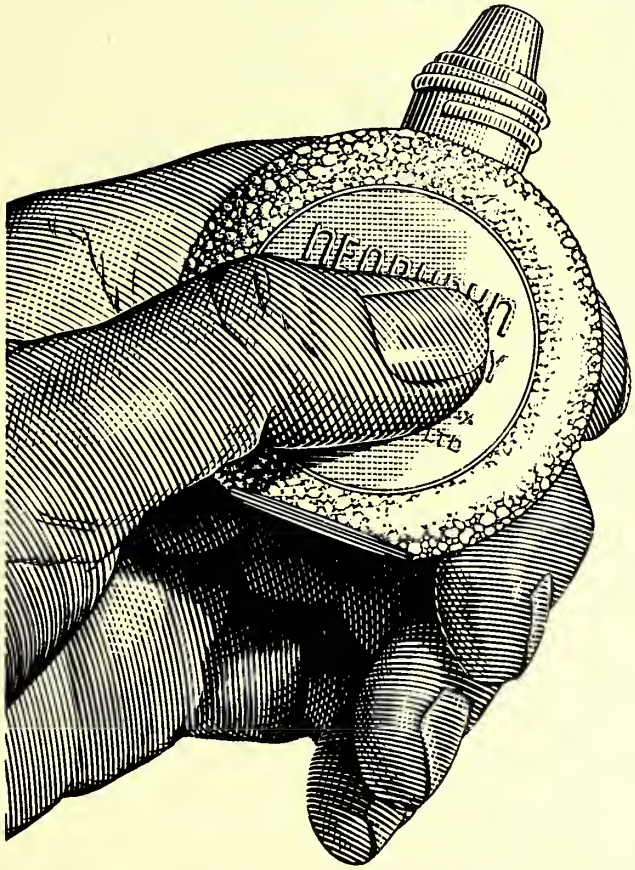
RADIOL CHEMICALS, LTD., 78 Upper Richmond Road, London, S.W.15: Radian products in *News of the World, News Chronicle, People, Daily Telegraph, Woman's Weekly, Woman's Own, Empire News, People's Friend* and local newspapers, professional journals and sporting magazines.

SANGERS, LTD., 258 Euston Road, London, N.W.1: Glymiel jelly in women's magazines, on posters in major provincial towns and on London Transport escalators.

SPA BRUSHES, LTD., Freeman Works, Chesham, Bucks: Spa toothbrushes. Holiday competition in national Press.

WIMSOL, LTD., Atlas Mills, Keighley, Yorks: Wimzo hand cleanser in *Picture Post, John Bull, Weekly News*, provincial newspapers, cinemas and in *Woman* and *Woman's Weekly* from June onwards.

NEW— Nasal spray with NEOPHRYN



This powerful nasal decongestant is now available as a spray. Neat and unobtrusive, the new 'Neophryn' nasal spray can be carried in the pocket or handbag and is always available when needed. It has a special micro-jet tip designed to give an adequate dose of 'Neophryn' in a fine even spray.

Chemists can confidently recommend 'Neophryn'— the safe decongestant.

Price:- Trade 2/4d.
Retail 3/6d.
Exempt from Purchase Tax.

'Neophryn' Nasal Drops and 1% solution (for specialist practice) are also available.

NEOPHRYN

Trade Mark

Manufactured in England by

BAYER PRODUCTS LTD., Africa House, Kingsway, London, W.C.2

Associated export company: WINTHROP PRODUCTS LIMITED, LONDON.

SODIUM SALICYLATE B.P.

manufactured by

ACID SALICYLIC B.P.

WARRINGTON
CHEMICAL & DRUG CO., LTD.
PADDINGTON WORKS, WARRINGTON, ENGLAND.
TELEPHONE: WARRINGTON 2331-2

PURE CRYSTALLINE D3

Manufacturers:
PEBOC
LIMITED

Enquiries to SALES OFFICE
629/630 TOWER BUILDING
LIVERPOOL 3 · ENGLAND

LABORATORIES
GREENFORD · MIDDLESEX



PRITCHARDS (SCENTED) D.D.T.
SPRAY-A-MIST
KILLS FLIES, MOSQUITOES, MOTHS, AND ALL INSECT PESTS
SPRAYS FROM FLEXIBLE BOTTLE
Sole Manufacturers:—
PRITCHARDS LTD., Cheadle, Cheshire, England

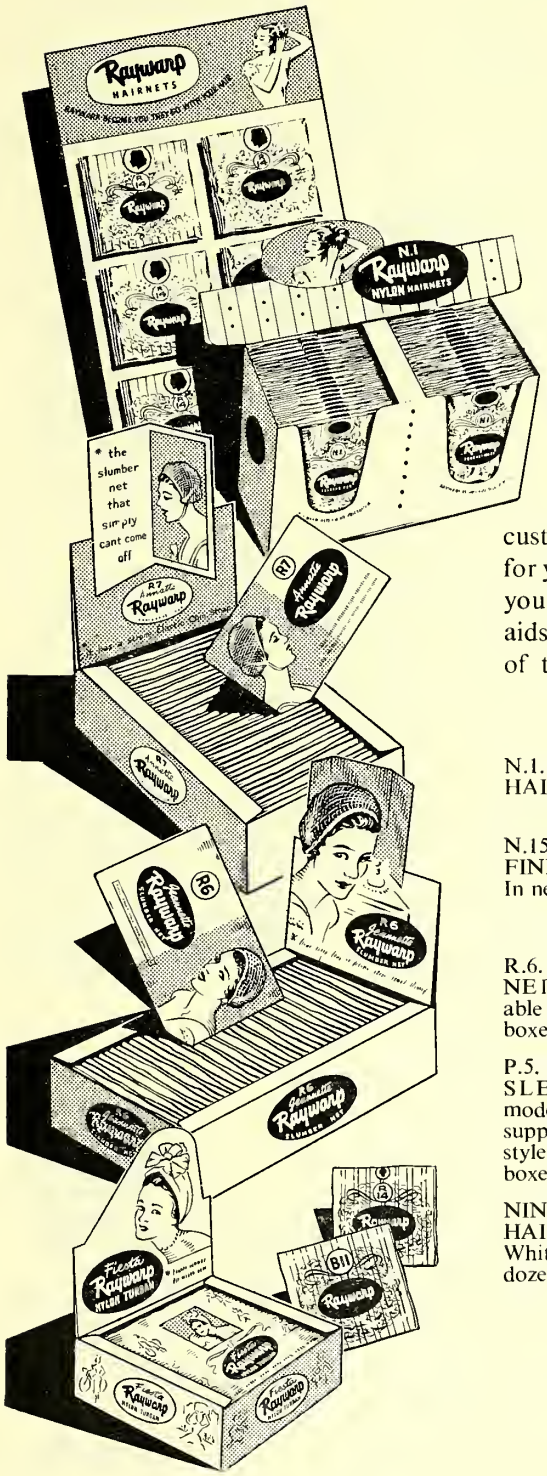
Manufacturer offers agencies for
The "FRICKOL" Improved COLOSTOMY BELT (Patent applied for). "FRICOSE" (Reg.) Two-way Stretch ELASTIC HOSIERY, Lastex Yarn. ABDOMINAL BELTS etc. QUICK SERVICE
Enquiries invited to:
F. E. FRICKER LTD., Imperial House, 34 Manchester Road, Bradford
(Surgical Appliance Manufacturers—Est. 1927)

N23



Victory·V
GUMS & LOZENGES
FRYER & CO. (Nelson) LTD., NELSON, LANCS.

Raywarp Hairnets Sell Themselves



—and give you a good and speedy profit

Raywarp hairnets have a fine reputation—but they do not depend solely on that: they're "dressed to sell" too. Raywarp packs serve a dual role: they attract your customers by their colourful design; they make handling easier for you. And don't forget, hairnets are repeatable lines. Choose your most convenient form of selling from the compelling aids illustrated; and ask your wholesaler to take advantage of the By Return Service from Raywarp.

Hairnets individually packed — One gross Show Boxes or half gross Hanging Cards

N.1. NYLON SUPER STRONG HAIRNET in Blue packet.

N.15. "CRESCENDO" SUPER-FINE. 15 denier Nylon Hairnet. In new Pictorial packet.

R.14. REAL SILK HAIRNET. To tone with the hair. In Pink packet.

B.11. NYLON BUN NET, in superfine 15 denier. In Primrose packet.

OTHER PACKS

R.6. JEANETTE SLUMBER NET. Sturdy net to last—unbeatable value. In Pictorial packet, boxed three dozen.

P.5. NYLON PANELLED SLEEPING NET. Superbly modernised, elastic panels to support hair, one size for all hair styles. Each in Pictorial packet, boxed one dozen.

NINETTE NYLON SLEEPING HAIRNET. In Peach, Sky, and White. Packed single, boxed one dozen.

R.7. ANNETTE SLEEPING/SETTING NET with elastic chin strap. Each in Pictorial packet, boxed three dozen.

43. TRIANGULAR STYLE SETTING NET. Large size with tie-tape, boxed one dozen.

FIESTA NYLON TURBAN. In four lovely shades. Packed single, boxed one dozen.

RAYWARP HAIR GRIPS. Handy packs of 12 for the handbag. Boxed one gross.

Raywarp HAIRNETS

RAYWARP TEXTILES LIMITED · ALFRED STREET NORTH · NOTTINGHAM

Quick Selling!
Nationally Advertised!

INECTO

MEANS

Lovely Permanent Hair Colouring

IN ANY SHADE OF YOUR CUSTOMER'S CHOICE

Inecto-Rapid has been famous for over 40 years as the supreme recolourative for grey and white hair. Backed by regular announcements in the *Daily Mirror*, *Daily Sketch*, *Sunday Pictorial* and other leading papers, the new Four-in-One series is leaping into popularity as the easy, pleasant means of restoring new, magical loveliness to hair that is faded or just showing those first grey streaks.

Available (Rapid and Four-in-One) in attractive Home Packs.

PRICES

Small size (1A & 1B bottle) 2/6 wholesale (plus P.T.), retailing at 5/6.

Large size (4A & 4B bottles) 7/– wholesale (plus P.T.), retailing at 15/9.

If you are not already stocking Inecto, the magic name in hair colouring, write at once for full particulars.

INECTO ENQUIRY BUREAU
27 DOVER STREET · LONDON W·1
Hyde Park 7541 (12 lines)

Have any of your customers been to Scotland?

They're certain to know all about

Askit

the Powder that's a household name!

'Askit' is Scotland's leading Proprietary Medicine for the safe, speedy relief of Headaches, Neuritis, Rheumatic and Nerve Pains.

Manufactured by
ASKIT LTD : MANUFACTURING CHEMISTS : GLASGOW N

and stocked by
ALL LEADING WHOLESALE HOUSES THROUGHOUT BRITAIN

The shaving brush with the TWO YEAR guarantee . . .

We cordially invite you, when in London to visit our new showrooms at:—
92 Regent Street, London, W.1
(one minute from Piccadilly Circus)
and see our range of 250 Pure Bristle and Pure Badger Shaving Brushes to suit all markets



VULFIX
SHAVING BRUSHES
PURE BADGER AND PURE BRISTLE

Write for illustrated brochures and price lists
THE PROGRESS SHAVING BRUSH CO. LTD.
Mottram St., Stockport, Eng. 92 Regent St., London, W.1



the safer antibiotic lozenge

Tyrozets

Trade Mark

'TYROZETS' move fast because 'Tyrozets' work fast! Bacteria-killing *tyrothricin* and soothing *benzocaine* promptly relieve raw, sore throats. The prescription demand is heavy, and patients appreciate the pleasant taste of 'Tyrozets'.

'TYROZETS' are a unique lozenge that delivers 1 mg. of antibiotic *tyrothricin* and 5 mg. of soothing *benzocaine* directly to the site of pain and infection.

'TYROZETS' are packed in special plastic tubes, selling at 3/6 (exempt P.T.).

'TYROZETS' may be sold by pharmaceutical chemists without a prescription.

CHEMISTS' BONUS PARCEL

36 tubes or more at special rate of 27/- per dozen net for direct purchase.

SHARP & DOHME

Sharp & Dohme Ltd., Hoddesdon, Herts.

*SELL YOUR CUSTOMERS THE *Oil* YOU WOULD USE YOURSELF



SAMARITAN *Olive Oil*

As *you* will realise, Samaritan Olive Oil comes from the first cold pressings of selected ripe olives. Its golden colour, pleasant odour and bland flavour will attract discerning customers repeatedly.

TR183

THORNTON & ROSS
LIMITED
LINTHWAITE LABORATORIES
HUDDERSFIELD ENGLAND

FOR DISPENSARY and COUNTER USE

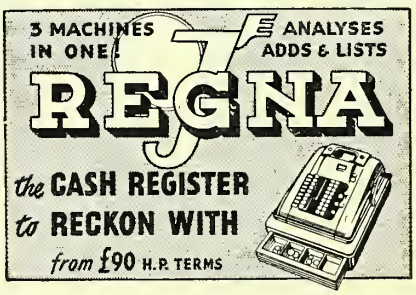
CUT WHITE DEMY
in various sizes, packed in convenient cartons

MEDICINE BOTTLE BAGS
all sizes, including the new "Seal-Easi" satchel

COUNTER BAGS
for general use — a wide range available

SAMPLES WITH PLEASURE

James Townsend
AND SONS LIMITED
SPECIALIST CHEMISTS' PRINTERS
LITTLE QUEEN STREET, EXETER
Also The Orchard Press, Eastcote, Pinner



THE REGNA CASH REGISTER CO.
Proprietors: The Joeli Safe Co. (London) Limited
Telephone: TRAfalgar 3718
7 York Place, Adelphi, London, W.C.2



NIGROIDS
The Original Liquorice and Menthol Pellets

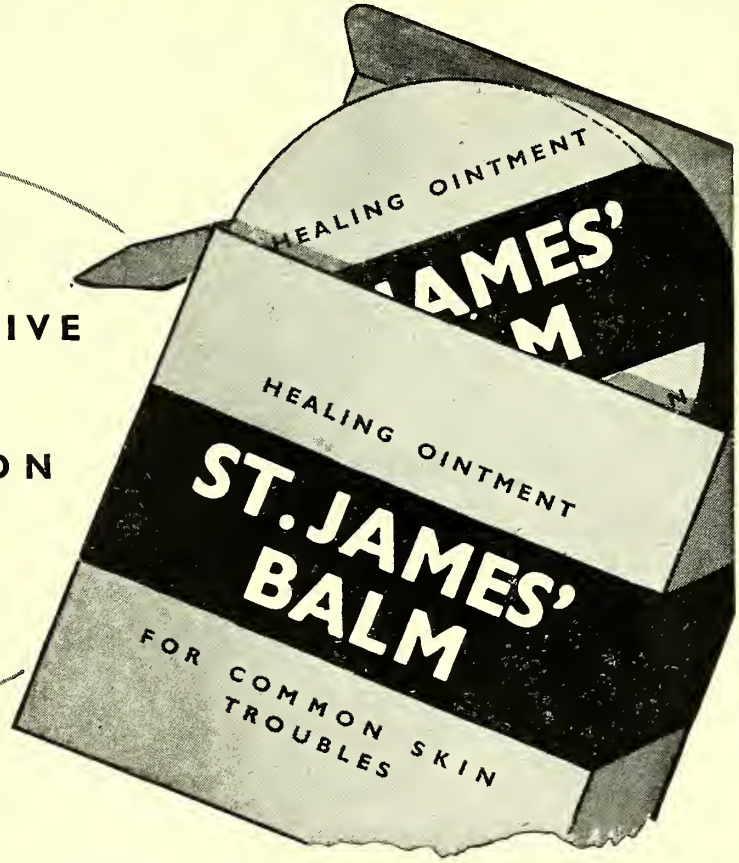
NATIONALLY ADVERTISED in
DAILY MAIL · SUNDAY TIMES
DAILY TELEGRAPH · THE OBSERVER

Retail Price **NOW ONLY 9½d.**

From wholesalers or direct from sole manufacturers:-
FERRIS & CO. LTD · BRISTOL 2

The *time-tested* FAMILY OINTMENT

IN DISTINCTIVE NEW TIN AND CARTON



ST. JAMES' BALM

The TRIED and TRUE remedy

ST. JAMES' BALM is now presented in a more modern style. The formula of the ointment itself, incorporating the broth filtrates of the microbes common to most skin infections, has withstood the test of time and is still unexcelled as a treatment for numerous skin complaints. Your customers can rely on ST. JAMES' BALM as always, when a proved skin healing agent is needed.

We are proud that, over the years, the extensive sales of ST. JAMES' BALM have been built up almost exclusively on personal recommendation. Be sure to carry adequate stocks. Users of our ointment are not only faithful but ever-increasing in number.

MEDICO-BIOLOGICAL MBL LABORATORIES LTD.

CARGREEN ROAD, SOUTH NORWOOD,
LONDON, S.E.25



For ENERGY *and* ENDURANCE!



THE ORIGINAL GLUCOSE TABLETS

USED BY LEADING COMPETITORS IN EVERY SPORT

In 4 delicious flavours

A. L. SIMPKIN & CO. LTD., SHEFFIELD 6

Manufacturers of Glucose Barley Sugar Confectionery and Glucose Medications

BARIUM SULPHATE B.P.

Bariform Brand Barium Sulphate for X-ray diagnoses is a fine white powder conforming to the B.P.

Designed for the preparation of barium meals, it has excellent suspensibility and extremely fine particle size.

It is also available as a rapidly dispersible paste.

HYDROGEN PEROXIDE



10 and 20 volumes in bottles. A wide range of packs and labels available.

LAPORTE

Laporte Chemicals Ltd., Luton. Tel.: Luton 4390 Grams: "Laporte Luton"

P.A.S.

GLYCINE

FERROUS GLUCONATE

ISONIAZID

HALEWOOD CHEMICALS LIMITED

111-115 EASTBOURNE MEWS, PADDINGTON, LONDON, W.2
AMBASSADOR 4198

ISOVAC



The name for the best and *the best value* in VACUUM FLASKS

1 PINT 4/11 · 1½ PINTS 7/- · 2 PINTS 8/6

FROM YOUR WHOLESALER IN CASE OF DIFFICULTY WRITE TO L. REES & CO. LTD. (ISOVAC DIVISION) 31/35 WILSON STREET, LONDON, E.C.2.

Show 'Elasto' — It Sells on Sight! ★

Elasto

THE BIOCHEMIC TABLET

Retail Price (incl. P.T.)
5/8d. and 22/7d.

ELASTO advertising is widespread and consistent. A steady demand for this fine product is being created at your very door. Link up with this vigorous campaign by reminding your customers that YOU can supply. Your PROFIT IS ONE SHILLING AND SEVENPENCE on each sale!

★ *Novel Display Stand free on request*

NEW ERA LABORATORIES LTD.

CECIL HOUSE · HOLBORN VIADUCT · LONDON



"STREETS AHEAD —"

OF OLD FASHIONED METHODS

ADAPTOPLAST

Nowadays practically everyone appreciates the advantages of, and uses, this modern type of dressing.
"ADAPTOPLAST," with its Dressing Pad impregnated with 'Euflavine,' a most soothing medicament for wounds and burns, promotes extremely rapid healthy healing. In addition, the open sides of "ADAPTOPLAST" ensure that the necessary adequate ventilation is provided.

Tins. Retail. 9d. and 1/6d. Trade price 6/5d and 12/10d. dozen.

1-yard lengths	1½"	2/1d. yard	18/- doz.
in dispenser	2½"	2/10d. „	24/4d. „
cartons	3"	3/4d. „	28/8d. „

Include "ADAPTOPLAST" in your next Plaster Order—
£5 Parcel less 2½%. £10 Parcel less 5%.

DISTRIBUTED THROUGH CHEMISTS ONLY.



A PRODUCT OF *Cuxson Gerrard & Co. Ltd.* OLDBURY BIRMINGHAM.

ROTER

tablets —

for gastritis and peptic ulcer, both chronic and acute.

Particularly indicated for the effective treatment of peptic ulcer cases of long standing and those refractory to other types of therapy; also for cases of post-operative relapse and recurrence.

PACKINGS		*Retail price including P.T.*
Trial size	40 tablets	7/2d.
Standard size	120 „	20/7d.
Full treatment size	640 „	103/-d.
Dispensing Packs	720 „	P.T. exempt

★ *Attractive display material available on request*

Stocked by all principal wholesale houses.

F.A.I.R. LABORATORIES LTD.

179 HEATH ROAD · TWICKENHAM · MIDDX.

Phone: POPesgrove 2028.



The BEATSON

Ribbed Oval..

The Beatson Ribbed Oval carries on the tradition of the increasingly popular Beatson Medical.

Available in a wide range of sizes, both Cork Mouth and Screw Neck, with either White Enamelled or Black Bakelite Caps.

"The Sign of a TRADE MARK REGISTERED *Good Bottle"*

BEATSON, CLARK & CO. LTD.

GLASS BOTTLE MANUFACTURERS

ROTHERHAM (Est. 1751) **YORKS**

BC73



C. Olley & Sons Ltd.

EST. 1844

CORKS, STOPPERS, BUNGS.

Telephone Royal 4922/3

CAMPERDOWN STREET LONDON, E.1.



The wasted time and labour entailed in tedious hand stirring can be put to more profitable use. Consult Mitchell for expert advice and full assistance in the selection of motor-driven agitators for your purposes. Our range covers mixers to handle from a few gallons to many thousands.

MITCHELL FLUID MIXER SPECIALISTS

Mitchell

L. A. MITCHELL LTD. 37 PETER ST., MANCHESTER, 2
Telephone : BLAckfriars 7224 (4 lines)

MX.56

Garlic Therapy of

Gastro-intestinal Disorders

Diarrhoea
Dyspepsia
Flatulence
Meteorism

is carried out in a modern form with

ALLISATIN

Allisatin tablets contain 1 g. fresh garlic adsorbed on activated charcoal in a concentrated, odourless and tasteless form. Allisatin adsorbs intestinal toxins and suppresses the pathological intestinal flora.

Literature and samples available on request.

SANDOZ

SANDOZ PRODUCTS LIMITED

134, *Wigmore Street*, *London, W.1.*

"HACKS" bring you Profit & Prestige!

"HACKS"—for throat and chest everywhere acclaimed the best

"HACKS" ARE BEING ADVERTISED EXTENSIVELY IN THE PRINCIPAL NATIONAL AND PROVINCIAL NEWSPAPERS

Keep sales up and coughs down by stocking "HACKS"—NOW!

RING YOUR WHOLESALER TODAY!

"HACKS"

THE COUGH SWEET THAT'S A TREAT TO EAT

Enquiries to White-Hudson of Southport

A REVISED AND IMPROVED EDITION OF

Pharmaceutical Emulsions and Emulsifying Agents

By L. M. Spalton, B.Pharm., M.P.S.

Now Bound in cloth and fully indexed

TODAY, the pharmacist is faced with an almost bewildering assortment of emulsifying agents, all having varying properties and requiring different methods of treatment. In this book the considerable range of these products has been classified, together with essential practical points about their pharmaceutical use. It contains chapters devoted to the theory of the formation of emulsions, properties of different emulsifying agents (classified into groups according to their structure and characteristics), the formulation and preparation of emulsions, the general methods of preparing emulsions with details of technique and causes of emulsion separation, preservation and storage of emulsion, etc. The practical uses of emulsifiers is dealt with at considerable length, together with methods of handling each type of emulsifying agent and full notes of incompatibilities and other matters. The book also contains a classified index of over 300 emulsifying agents with reference to their composition, type and uses, together with an index of manufacturers.

★ **Every Pharmacist should possess a copy 7/6 postage 4d.**

Order through your bookseller or direct rom the Publisher:—

The CHEMIST AND DRUGGIST

28 ESSEX STREET, STRAND, LONDON, W.C.2.

Still greater

Optrex campaign

this year

Increased sales last year—increased advertising this year—and more profits for you! The Optrex success story is building in importance with each season, don't miss this opportunity to take part in the present great new sales drive! Optrex advertisements are appearing in national daily newspapers and the provincial press in larger sizes than ever . . . and an imposing array of additional national magazines with even greater frequency.



BE SURE YOU HAVE ADEQUATE STOCKS NOW — OF OPTREX EYE LOTION, EYE BATHS AND EYE COMPRESSES

Here are some of the publications in which Optrex advertising appears regularly . . .

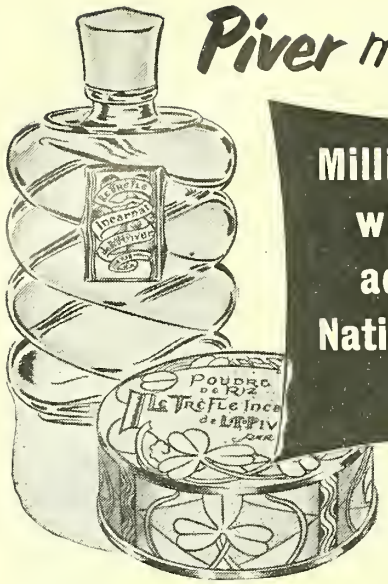
Daily Express	Woman	Picture Post
Daily Mail	Woman & Home	John Bull
Daily Mirror	Illustrated	Reader's Digest

Oh for some **Optrex**

This 'catchy' slogan, already known to millions, will continue its hard-selling job for you in every advertisement on the present programme. Write for the Optrex Display Card to link up with the New Campaign.

KELDON LIMITED Wadsworth Road, Perivale, Middlesex

Piver means Real Business this year!



Millions of Women will see PIVER advertising in National Magazines this year

PIVER

CREATED, PACKED AND SEALED IN PARIS

The French perfume that women BUY!

Women know what they want — and they want PIVER, the real French perfume, famous since 1774. Their letters, each day asking "Where can we buy it?" and the retailers ordering NOW to meet this heavy demand, prove again that Piver *sells* and goes on selling.

Another big campaign in National Magazines backed by Screen advertising, and counter displays for you, means big business with the real French perfume that sells at *sensible prices*.

Compare these retail prices:—
Les Fleurs (8 fragrances) 13/4 retail.
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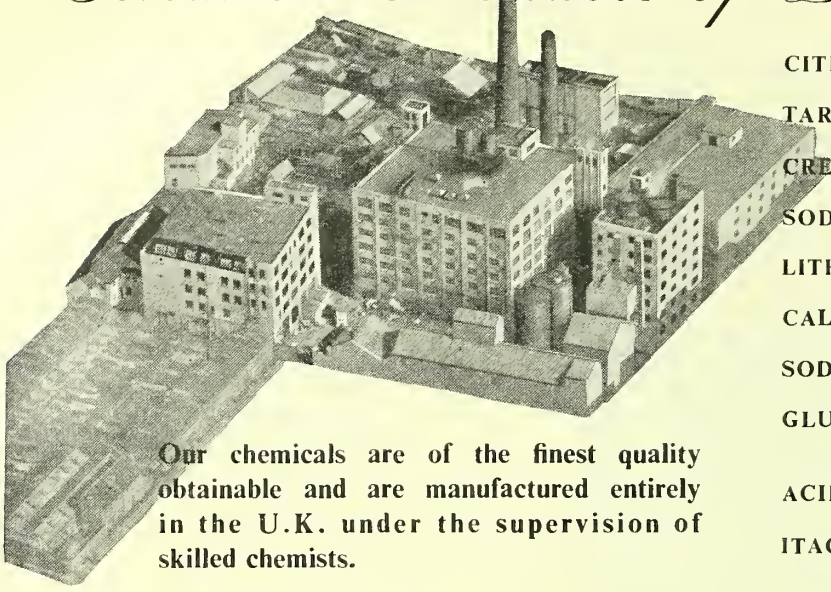
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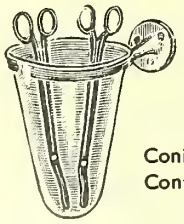
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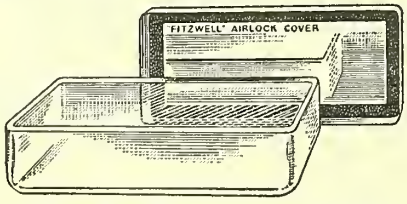
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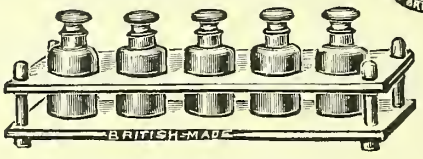
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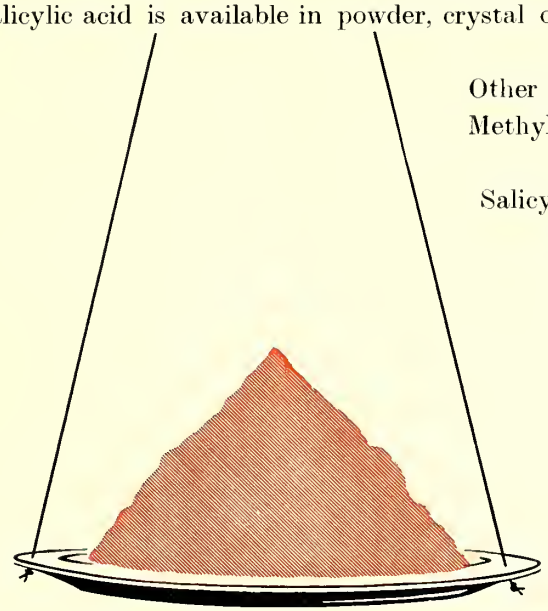
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The CHEMIST AND DRUGGIST

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Flextron v Nylon

by a chemist's daughter

I am returning herewith the two toothbrushes which you kindly let me have for my daughter to try out.

These brushes have been used on alternate days and I think they show convincing proof of your statements — (a) that my daughter will break down any toothbrush quickly, (b) that the Flextron brush is very superior to the Nylon.

I am grateful to you for this opportunity of putting these toothbrushes to the test, and I feel that I can push your Flextron brushes with every confidence again.

Needless to add I have now given my daughter some advice on the proper use of your toothbrushes!

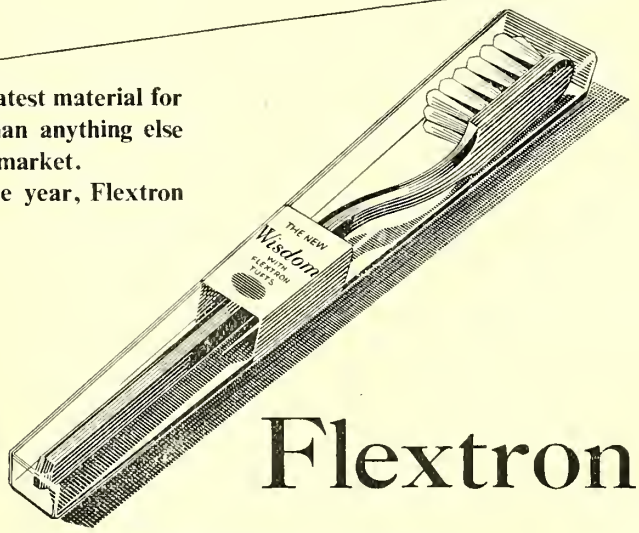
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When you sell Flextron, your customer gets a better toothbrush — and you get a bigger profit.

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0.5 „ „ „	1	9
1.0 „ „ „	2	7½
2.0 „ „ „	4	3
5.0 „ „ „	10	1½
10.0 „ „ „	18	3

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	LIST PRICES EACH s.	d.
5.0 mega unit bottles	10	1½
10.0 „ „ „	18	3

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**The prices for these packs are unchanged.*

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Senior Pharmacist

required. National salary scales and conditions. Applications stating age, qualifications and experience, quoting the names of two referees, to be submitted immediately to the Group Secretary (C.D. 182), Fulham and Kensington Hospital Management Committee, 5 Collingham Gardens, S.W.5. C 6737

HASTINGS GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacists

required as follows:—

St. Helen's Hospital, Hastings—June 7-19 inclusive;

Buchanan Hospital, St. Leonards-on-Sea—June 21-July 3.

Remuneration 15 guineas weekly, accommodation available for females, if desired. Apply to Group Secretary, 11 Holmesdale Gardens, Hastings. C 6724

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Assistant in Dispensing

(experienced) required (Whitley conditions and salary). Write with full details Group Secretary, Hackney Hospital, London, E.9, by April 3. C 6728

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Chief Pharmacist

required at the above Hospital. Should be M.P.S. or Ph.C. Salary £680 x £25 to £780, plus £25 per year higher qualifications allowance if applicable. Applications, with the names of two referees and full details, to the Hospital Secretary. C 6751

MILLER GENERAL HOSPITAL, GREENWICH, S.E.10 (180 Beds)

Assistant in Dispensing

required at above hospital. Salary according to age and experience (max. £415 p.a. at 29 years) plus London Weighting and qualification allowance if over 18 years. Superannuable post. Apply Chief Pharmacist (Tel.: Tideway 1136). C 6743

NORTH WALES HOSPITAL FOR NERVOUS AND MENTAL DISORDERS, DENBIGH

Chief Pharmacist

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Applications, together with the names of two referees, to be sent as soon as possible to the undersigned.

S. L. FROST,
Secretary to the Management Committee.
C 6722

ROYAL NATIONAL THROAT, NOSE AND EAR HOSPITAL, GRAY'S INN ROAD, W.C.1

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There is a vacancy for the above on a permanent basis. Whitley scales and conditions. Apply Chief Pharmacist. C 6745

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Chief Pharmacist Category II

Applications are invited for the appointment of Chief Pharmacist (non-resident) at the above Hospital, to commence duties mid June next. Salary and conditions of service in accordance with the Pharmaceutical Whitley Council Regulations. Salary £625 x £25—£725.

Applications giving full particulars, together with copies of three recent testimonials, to be sent as soon as possible to the Secretary, General Hospital, Nottingham. C 6705

ST. GEORGE'S HOSPITAL, LONDON, S.W.1

Pharmacist

Applications are invited for the post of pharmacist at above teaching hospital. Salary in accordance with the Pharmaceutical Whitley Council scale. Applications, with full particulars to Chief Pharmacist. C 6706

ST. MARK'S HOSPITAL, CITY ROAD, LONDON, E.C.1 (Post-graduate Teaching Hospital)

Pharmacist

Applications invited for the appointment of pharmacist at the above hospital, where there is a busy pharmaceutical department and a wide variety of experience is offered. Salary scale £450—£575 p.a. plus London Weighting. Age, qualifications, experience, names two referees to Secretary. C 6689

SHOTLEY BRIDGE GENERAL HOSPITAL, SHOTLEY BRIDGE, CONSETT, co. DURHAM

Locum Pharmacist

Applications are invited for the position of Locum Pharmacist at the above hospital for the four-month period covering June, July, August and September. Salary £16 16s. per week. Resident or non-resident. If resident deduction will be made for board residence.

Applications, stating age, qualifications, should be sent to the Secretary/Superintendent. C6707

SUMMERFIELD HOSPITAL, WESTERN ROAD, BIRMINGHAM, 18

Pharmacist

required at this Chronic Sick Hospital. Salary and conditions as prescribed by the Pharmaceutical Whitley Council. Detailed applications, giving names of two referees, to the Hospital Secretary. C 6744

THE HOSPITAL FOR SICK CHILDREN, GREAT ORMOND STREET, LONDON, W.C.1

Pharmacist

Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£575) plus London Weighting, £25 for recognised higher qualification. Apply by letter of Chief Pharmacist. C 166

Appointments—Continued

TEES-SIDE HOSPITAL MANAGEMENT COMMITTEE
Two Dispensing Assistants

Applications are invited for the appointment of two dispensing assistants to the Tees-side Group of Hospitals, one to be based on North Ormesby Hospital, Middlesbrough, and one on the General Hospital, Middlesbrough. Salary within the range of £320 to £415 plus £15 p.a. if the applicant is in possession of the Certificate of the Society of Apothecaries of London. Applications, stating age, qualifications, experience, and accompanied by copies of two recent testimonials should be addressed to the undersigned.

S. G. LIGHTFOOT,
Group Secretary.

Worsley House,
North Ormesby Hospital,
Middlesbrough. C 6690

THE LONDON HOSPITAL, WHITECHAPEL, LONDON, E.1
Locum Registered Pharmacists

required from mid-April to mid-October 1954. Dining-room facilities available. Write Secretary. C 186

THE LONDON HOSPITAL, WHITECHAPEL, LONDON, E.1
Pharmacist

Applicants must be registered Pharmacists. Salary scale £450 (age 23) x £25 to £575 plus London Weighting according to previous experience and service. Dining-room facilities available. Write Secretary. C 179

THE MILLER GENERAL HOSPITAL (Cat. III)
Senior Pharmacist and Pharmacist

Applications are invited for the posts of SENIOR PHARMACIST and PHARMACIST in a well-equipped pharmaceutical department at the above hospital. Inspection of the department may be made by arrangement with Chief Pharmacist.
Salary and conditions of service as laid down by the Pharmaceutical Whitley Council.
Applications giving full details should be made to the Secretary, G. & D./H.M.C., St. Alfege's Hospital, S.E.10, as soon as possible. C 6742

THE UNITED NEWCASTLE UPON TYNE HOSPITALS
Locum Pharmacist

Experienced Pharmacist required for locum work in the Royal Victoria Infirmary during the months of June, July, August and September 1954. Salary fourteen to sixteen guineas per week according to experience. Applications giving full particulars of age, nationality, experience and qualifications, with the names and addresses of two referees, should be sent to the House Governor and Secretary, Royal Victoria Infirmary, Newcastle upon Tyne. C 6750

WEST LONDON HOSPITAL, HAMMERSMITH ROAD, LONDON, W.6
Senior Pharmacist (Male)

required to take charge of production, sterile preparation and stores at the above general teaching hospital, where there is a busy pharmaceutical department and a wide variety of experience is offered.
Salary scale £525—£625, plus London Weighting. Other terms and conditions in accordance with Pharmaceutical Whitley Council. Age, qualifications, experience, names two referees, to the Secretary. C 6688

WEST MIDDLESEX HOSPITAL (Category V), ISLEWORTH, MIDDLESEX
Senior Pharmacist

required. Salary scale £525 x £25—£625 plus London Weighting. Higher qualification allowance £25 per annum. Whitley conditions applicable. Applications stating age, qualifications and experience, with copies of testimonials and names and addresses of three referees to Chief Pharmacist. C 6679

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ISLE OF MAN. Wanted from April, capable assistant for pharmacy, young, energetic lady or gentleman, state age, salary required with references. Also wanted end of May, seasonal assistant for three months. Frank Purcell, M.P.S., F.B.O.A., 97 Strand Street, Douglas, Isle of Man. C 1052

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MANAGER required for pharmacy in busy area. Well staffed for brisk counter trade, moderate dispensing. Reasonable hours. Good salary. Possibility of succession. Full particulars to G. L. Lacey, 28 Lyndhurst Road, Plymouth. C 1087

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NEW SHOP in well-populated suburb of Liverpool now being fitted out requires smart, efficient, qualified manager. The position is permanent and offers considerable scope to a progressive man. Small modern flat on the spot is available. Please give full details in first instance and your ideas as to salary bearing in mind there will be a bonus or share in profits. Box C 1034.

NORTH LONDON SUBURB. Pharmacist required to manage spacious well fitted branch with substantial counter trade. Good opportunity for ambitious man to earn top salary together with monthly bonus and rota duty payments. Accommodation available if required or assistance given in house purchase. Superannuation benefits, etc. Apply with full details stating when available for interview to Chief Pharmacist, Grange Road, Leyton, E.10. C 1096

NOTTINGHAM. Pharmacist assistant, preferably with optical qualification (but not essential) required as soon as possible. Please apply, with usual particulars, to Gilmour, Chemist and Optician, Beeston, Nottingham. C 1093

PHARMACIST, lady or gentleman, required to manage our branch pharmacy at Slough. House provided. Apply with full particulars as to age, experience and salary required to J. J. Pickering, Woods Pharmacy, Ltd., Windsor. C 1102

PHARMACIST, lady or gentleman, to manage old-established branch in pleasant residential area. Most congenial position with good salary and three weeks' annual holiday. Comfortable and roomy living accommodation available if required. Apply in first instance to A. Platts, M.P.S., Eardley and Furnival, 265 Glossop Road, Sheffield. C 1085

QUALIFIED CHEMIST to manage S. London chemist shop. Must have had some experience in National Health dispensing. Luxury flat and excellent prospects for the right applicant. Apply Box C 1081.

STOKE-ON-TRENT. Pharmacist (either sex) required as relief branch manager. Permanency and good salary with opportunity of gaining varied experience. Apply to R. E. Ridley, c/o Browns Chemists, Ltd., 48 Piccadilly, Hanley, Stoke-on-Trent. C 1054

TEMPORARY STOCKTAKING assistants (either sex) required for four or five weeks commencing as soon as possible. Applicants should be resident in the London or Birmingham areas; possibility of permanency later if required. Please state brief particulars of past experience and salary, etc. Box C 6755.

UNQUALIFIED ASSISTANT, whole or part-time, for dispensing and counter, in S.W. London. Apply Box C 1089.

LOCUMS WANTED

LOCUM PHARMACISTS required for London and suburban areas, long or short periods March to October. Permanency at conclusion of tour if desired. Salary and expenses basis. Apply to H. Warburton, M.P.S., Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 1097

RETAIL (OVERSEAS)

SOUTHERN RHODESIA. Lady pharmacist, preferably recently qualified, unmarried, good dispenser, for well-known Salisbury chemists. Starting salary £75 p.m., plus annual bonus, 2 or 3 year contract, passage paid. Apply with full details of training and experience and with copies of testimonials to Box C 6753.

WHOLESALE

ACTIVE FREE-LANCE representatives required by well-known manufacturers of two national advertised proprietary lines selling to chemists. Areas vacant, Northumberland, Norfolk, South Wales, Surrey and Kent. Apply Box C 1048.

ASSISTANT to manager of filling and packing department required by well-known London firm of manufacturing pharmaceutical chemists. 5-day week. Pension scheme. Apply in writing, stating age, experience and salary required, to Box "A.M.", Frost-Smith Advg., 64 Finsbury Pavement, E.C.2. C 6723

BIOREX LABORATORIES, LTD., sales representative. Pharmacist preferred, excellent remuneration. Essential established connection chemists and hospitals; drugs, dressings, proprietaries, chemists' sundries, car owners, unusual opportunity. North London and other London territories vacant. Apply to 47-51 Exmouth Market, London, E.C.1. C 6733

BROOK, PARKER & CO., LTD., require a young qualified chemist to take charge of laboratory and supervise the manufacturing of galenicals, etc. Reply in writing giving age, experience, etc., to Horton Road, Bradford, Yorks. C 184

FACTORY ASSISTANT required, having some experience of manufacturing galenicals and tablets, by London firm of manufacturing chemists. Applications are invited from young men aged up to 25 years, stating experience and salary required. Box C 6726.

MEDICAL REPRESENTATIVE
West End of London

A new and progressive pharmaceutical company marketing a unique range of medical specialities require an experienced qualified representative to call on consultants in the West End.

The vacancy offers a first-class opportunity for a man of ability and enthusiasm. A generous salary and bonus will be paid to the successful candidate. There is a company pensions scheme.

Applications, which will be treated in strict confidence, should give full details and be addressed to the Managing Director, Box C 6685.

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ADVERTISERS about to market a new project with a pharmaceutical speciality, require the services of reputable, high grade, energetic sales agents or organisations, with strong connections, especially with all leading chemists. Please apply Box C1074

Situations Open—Continued

FOR LANCASHIRE (and perhaps Westmorland, etc.). Representative with thorough knowledge of wholesale drug trade, and good connection amongst retail pharmacists on this territory. Must be experienced salesman. Excellent remuneration. Car provided. Write for interview, giving particulars. Apply Box C 6695.
FOREMAN with a complete knowledge of tableting and coating required. Only first-class men need apply. Salary will be commensurate. Pension scheme, canteen, etc. London area. Apply in first instance to Box C 1103.
H. BRONNLEY & CO., LTD., Warple Way, London, W.3, require a first-class sales representative for large Midlands territory becoming vacant in April. Must be at present calling on department stores and the better class chemists. Salary, commission, full expenses and staff superannuation. Write fully, stating age, experience, present earnings and if car owner, in strict confidence, to Sales Manager. C 6756
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INTERNATIONAL COSMETIC HOUSE requires young, enthusiastic representative (male) for London and Home Counties. Good connections with London store buyers and display managers essential. Unique opportunity for building-up a career with one of the world's largest cosmetic firms. Write, giving age, salary required and full details of experience to Box C 6747.

JOHN RICHARDSON & CO., LTD., LEICESTER
Pharmacist
Required to take charge of Analytical Laboratory. Experience of the official assays and a practical knowledge of Galenical and Tablet manufacture is essential. Apply giving full particulars including salary required, to John Richardson & Co., Ltd., Evington Valley Road, Leicester. C 6677

LANCASHIRE. A well-known ethical house require the services of a first-class man as medical representative to take over their established connection on this territory. Previous experience while desirable is not essential but applicants must have a sound pharmaceutical background, reside on territory and be car owner. The position offers salary, commission and expenses and is pensionable. Write in full confidence to Box C 6578.
LONDON pharmaceutical house requires representatives to retail chemists in: (a), South and South-west England; (b), S. Wales; (c), N.E. Coast, with strong connection in the area concerned. Experience in proprietary selling and use of own car desirable. Salary, expenses and commission. Box C 6740.
M.P.S. with manufacturing and analytical experience required by manufacturing chemists in Midlands, where a part interest and directorship is in prospect. Apply in confidence, stating age, experience and salary required to: Felton & Co., Chartered Accountants, 49 Newhall St., Birmingham, 3 C 1086

MANCHESTER AND E. LANCS AREA. Well-known ethical house require first-class man as medical representative to take over their established connection on this territory. Previous experience is not essential but candidates must have sound pharmaceutical background, reside on and know the area well. Remuneration is by way of salary, commission and expenses. An attractive pension scheme is also in force. Box C 6712.

MANUFACTURING CHEMISTS marketing restricted range of superbly presented proprietaries in ready and regular demand, require keen, free lance, representatives to re-establish and extend the following areas:—London, Southern and Eastern Counties, Lancashire, Yorkshire and West Country. Existing business handed over. Applicants should be car owners with strong connections. Excellent prospects of progressive earnings in return for initiative, energy and drive. Fullest particulars in confidence to Sales Director. Box C 1091.

MANUFACTURING CHEMISTS in Midlands require qualified chemist with manufacturing and analytical experience, progressive position. Full particulars stating age, qualifications, experience and salary required to Box C 1079.

MEDICAL REPRESENTATIVE required to contact doctors, hospitals and chemists in Western Scotland and Northern Ireland. Remuneration by way of salary, plus full expenses. Apply giving full particulars to Managing Director, Box C 6736.

MEDICAL REPRESENTATIVE required by London house to visit doctors, hospitals and chemists in Yorkshire, Northumberland and Durham areas, and also in London. Applicants must have a good pharmaceutical background and a knowledge of medical terminology. Men between the ages of 25 and 35 are invited to apply, and details of age, experience and salary required should be stated. Box C 181.

MEDICAL REPRESENTATIVE. Applications are invited by well-known London House for the position of medical representative for the territory comprising the Tyne and Tees areas. Previous representative experience is not essential but applicants must have sound pharmaceutical background and know the area well. The position is a pensionable one and offers salary, commission and expenses. Write in confidence to Box C 6713.

MEDICAL REPRESENTATIVES. Progressive positions now vacant for suitable persons of the highest integrity to act as medical representatives for Yorkshire and Lancashire. Apply, giving full details to Box C 1088.

MEDICAL REPRESENTATIVES. Sandoz Products, Ltd., invite applications from young men for the immediate appointment of a medical representative in the Bristol area (principally Gloucestershire and Somerset). Age not exceeding 28. Applicants should be pharmacists (preferably F.P.S.). Salary commensurate with experience. Thorough training provided. Please send full details of age, education, qualifications and experience, with photograph, to the Manager, Sandoz Products, Ltd., 134 Wigmore St., London, W.1. C 6748

NORTH WALES. Representative required to take over and extend existing connection for well-known firm of manufacturing chemists and druggists. Please give full details of experience, etc., in confidence, to Sales Director, c/o Box C 6746.

OPPORTUNITY for young man to join progressive firm of wholesale chemists' sundriesmen in Manchester area as assistant manager. Eventual control of small staff, despatch, buying, etc. Must have good education. Write, stating age, experience and education, etc., to Box C 6754.

ORGANIC CHEMIST with B.Sc. or equivalent required for well-equipped research laboratory of chemical manufacturers in London. Experience in oils, fats, waxes, detergents and emulsifiers preferred, but not essential. Very good conditions and excellent prospects are offered to a suitable applicant. Write Box C 6731.

PART-TIME representatives wanted for high-class nationally advertised herbal preparations. Chemist and druggist trade. All districts. Commission basis. Full co-operation is offered. Details will be treated in strict confidence. Box C 1051.

PHARMACEUTICAL CHEMIST. Manufacturing chemists, marketing range of pharmaceutical preparations for home and export markets, have a vacancy for young pharmaceutical chemist or graduate in pharmacy. In addition to routine duties, opportunity would be provided to take an interest in research work. To the chosen applicant, the appointment should be progressive. In first place applications, giving full information, should be addressed to Box C 6730.

PHARMACIST preferably with manufacturing experience required for small proprietary medicine business. Write stating age and experience to Managing Director, George Eade, Ltd., 232 Goswell Road, London, E.C.1. C 183

REPRESENTATIVE required to sell liquid household cleaner, stain remover. Apply Box C 1077.

REPRESENTATIVE required for London and Home Counties for the sale of essential oils, aromatic chemicals, flavouring essences, crude drugs and chemicals, etc. Attractive salary and commission. Experienced gentleman with initiative has excellent prospects. Apply to H. E. Daniel, Ltd., London, S.E.19. C 174

REPRESENTATIVE required by Ayrton, Saunders & Co., Ltd., to re-establish and extend connection in Devon, Cornwall, Somerset, Dorset. Write, in confidence, to the Sales Director, Ayrton, Saunders & Co., Ltd., Hanover Street, Liverpool, 1. C 6719

REPRESENTATIVES calling on chemists and chiropodists and wishing to carry as additional lines on commission basis, surgical appliances, supports, bandages, etc., are invited to apply for further details. Box C 1098.

RESEARCH CHEMIST. Applications are invited from suitably qualified men for the appointment of research chemist to a nationally known company of manufacturing chemists, situated within easy reach of Liverpool and Manchester. A growing programme of research work is being undertaken. The appointment offers opportunity of advancement, and the duties include some staff supervision. Applications which should be fully detailed, will be treated in strictest confidence. They should be addressed to the Managing Director, Box C 6729.

Situations Open—Continued

ROCHE PRODUCTS, LTD., require a medical representative for (a) Derbyshire, Staffordshire and Leicester; and (b) London (Western) and Wilts. A pharmaceutical qualification though desirable is not essential, nor is previous representative experience. Usual expenses and salary commensurate with experience. Contributory pension scheme in operation. Please send in confidence full details of age, experience, etc., to the Secretary, Roche Products, Ltd., 15 Manchester Square, London, W.1. C 6757

THE CROOKES LABORATORIES, LTD. Medical Representative. Applications are invited for an additional representative to call on doctors, chemists and hospitals in Essex and East London. A pharmaceutical qualification or an adequate technical background is essential. Candidates should preferably be aged 25-40 and possess personality and initiative. The appointment carries a progressive salary and an annual bonus/commission payment, directly associated with territorial results obtained, together with an adequate expense allowance. The position is permanent and superannuated, and only candidates with a keen desire to progress should apply in writing to the General Sales Manager, The Crookes Laboratories, Ltd., Gorst Road, Park Royal, N.W.10. C 6727

VACANCIES HAVE ARISEN on representative staff of well-known manufacturing chemists and distributors in the following areas:—1. Cornwall, Devon, Somerset, Wiltshire, Gloucestershire. 2. South Yorkshire, Derbyshire, Nottingham. Applications are invited from gentlemen with sound experience of retail pharmacy. Residence on the territory is essential. Remuneration by salary and expenses. Car provided. Submit full details of experience and age to Box C 6715.

YOUNG PHARMACIST, male or female, required as assistant in general pharmaceutical manufacturing, ampoule and aseptic laboratories in the Birmingham area. Hospital experience an advantage but not essential. Five-day week, pension scheme, house available if required. Apply giving full particulars including salary required to Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham. C 6714

WHOLESALE (OVERSEAS)

EVANS MEDICAL SUPPLIES, LIMITED, have vacancies for overseas representatives in South Africa and West Indies. Pharmaceutical qualifications essential, experience of medical detailing an advantage. Reply giving particulars of education, qualifications and previous experience to the Overseas Trade Director, Evans Medical Supplies, Limited, Speke, Liverpool. C 6687

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ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair prices for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks, Discontinued lines, Surplus and Redundant Stocks. Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3. C 153

WANTED: Second-hand Manesty No. 3 machines. Reply Box C 1075.

WANTED: Second-hand plant: Complete automatic ampouling plant; ointment or paste mill; ointment mixer, 80 quart Hobart or similar; sterilising oven, 4-6 c.f. Autoclave, gas, oil, or electrically heated; homogenisers; hand-operated tube-filling machine. Apply to Borex Laboratories, Ltd., 47-51 Exmouth St., E.C.1. C 6735

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RESIDENTIAL three-bedroomed semi-detached house and garden for sale, Hampshire. Vacant possession, pleasantly situated. All services. One-hour Waterloo. Apply Eade, High Street, Wells, Norfolk. C 1076

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LEASE OF SHOP, OLDWAY LANE HOUSING ESTATE, SLOUGH, BUCKS.

The Slough Borough Council invite applications for a lease for 18 years (with breaks at the option of the lessee at the end of the 3rd, 7th and 14th years) of a lock-up shop on this Estate to be let for the business of a pharmaceutical chemist. Available immediately. Moderate rental. Particulars and application forms from the undersigned, to whom completed forms should be sent not later than April 10, 1954.

NORMAN T. BERRY,
Town Clerk.

Town Hall, Slough.
March 27, 1954. C 6725

TENDERS

STEPNEY GROUP HOSPITAL MANAGEMENT COMMITTEE

TENDERS are invited for the supply of Drugs and Chemicals for the period May 1, 1954, to December 31, 1954. Forms of tender may be obtained on application to the Supplies Officer, Stepney Group H.M.C., Raine Street, Wapping, E.1, to whom they should be returned in a plain sealed envelope endorsed "Tender for Drugs and Chemicals" not later than 10 a.m. on Monday, April 5, 1954. The Management Committee does not bind itself to accept the lowest or any tender. C 6739

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The CHEMIST AND DRUGGIST
MARCH 27 1954



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